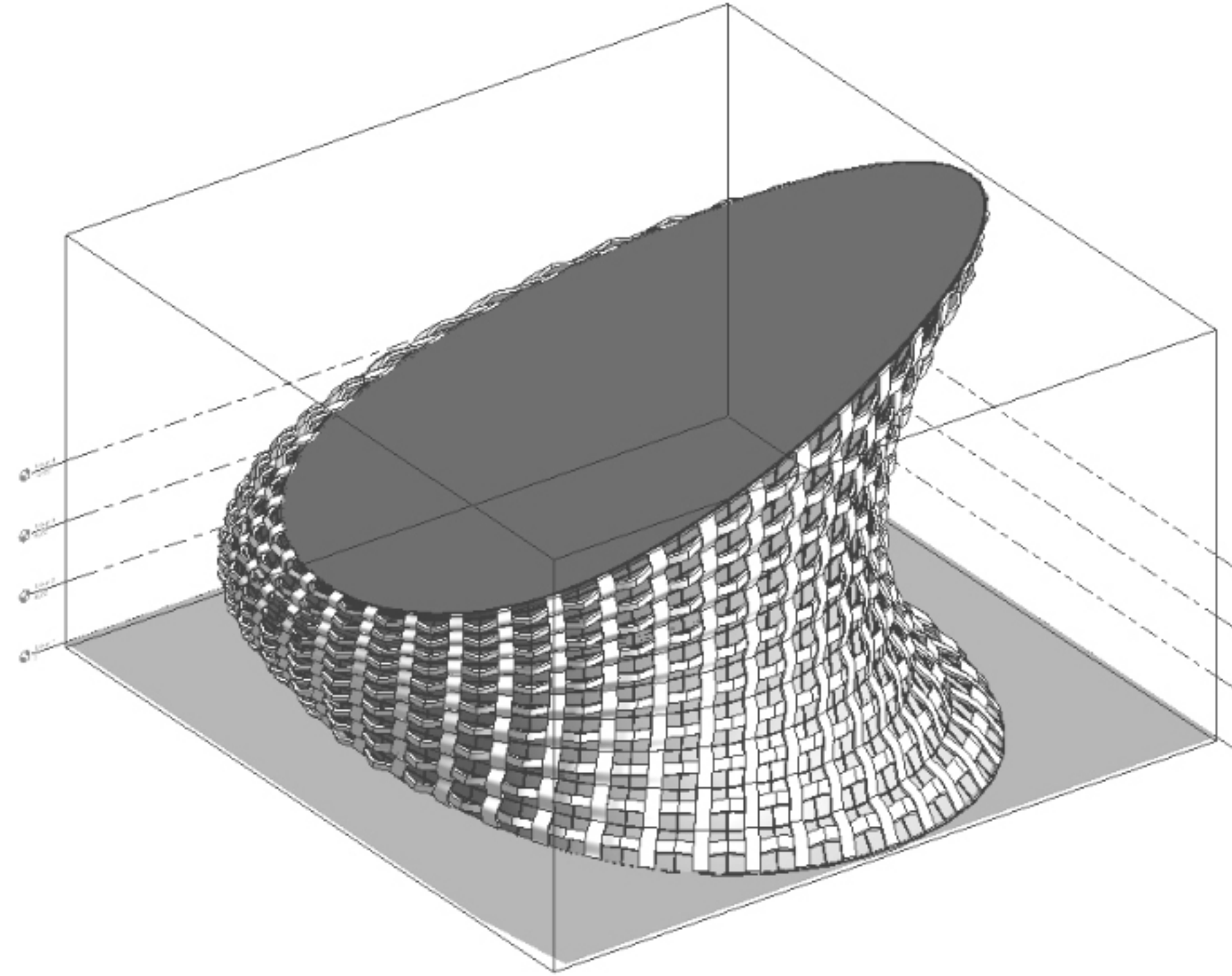


AA20

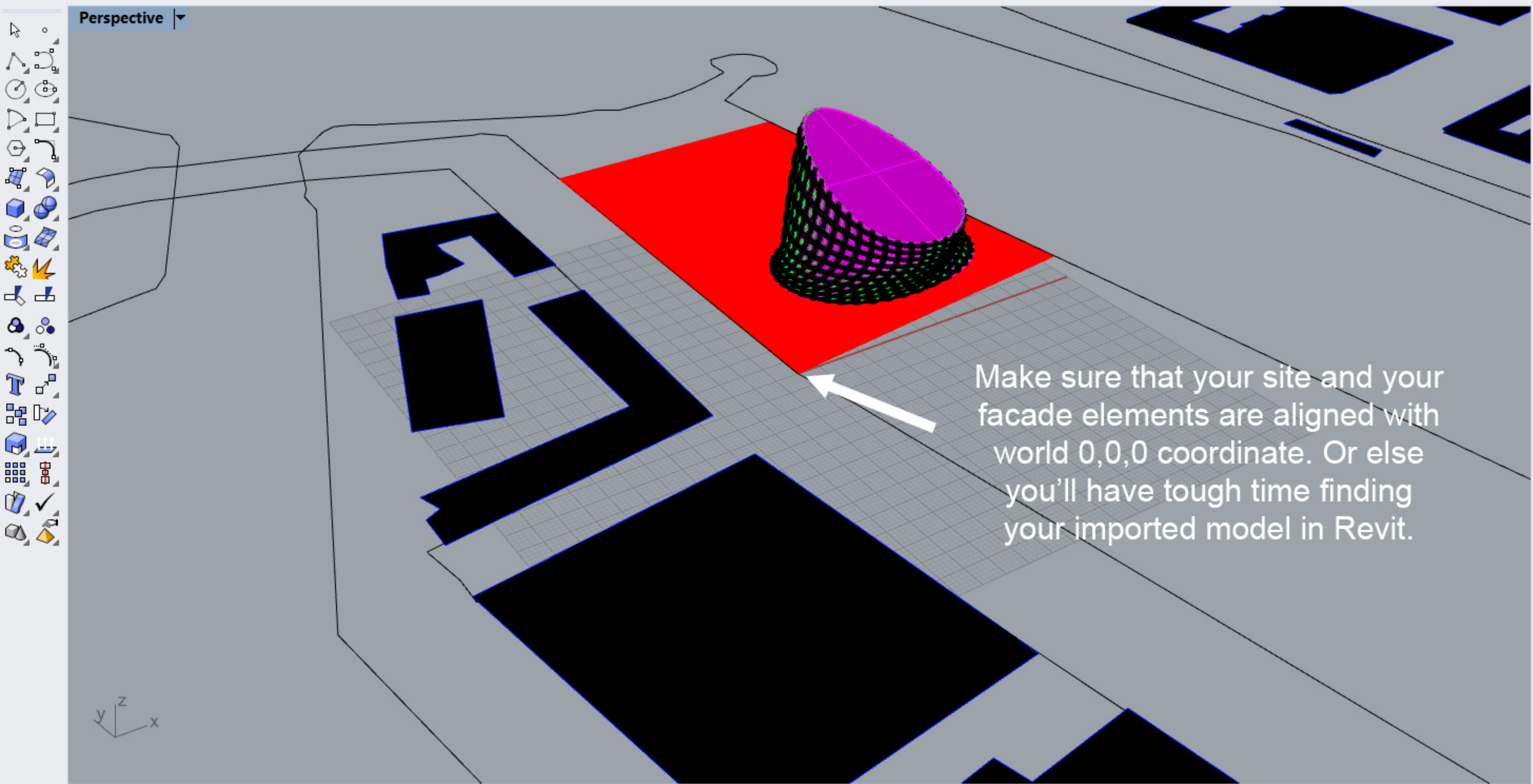
Rhino/Grasshopper to Revit
Workflow tutorial



LTH
2019

Point to move to <0.5000>: 0,0,0
1 polysurface added to selection.
1 polysurface added to selection.

Command:



Make sure that your site and your facade elements are aligned with world 0,0,0 coordinate. Or else you'll have tough time finding your imported model in Revit.

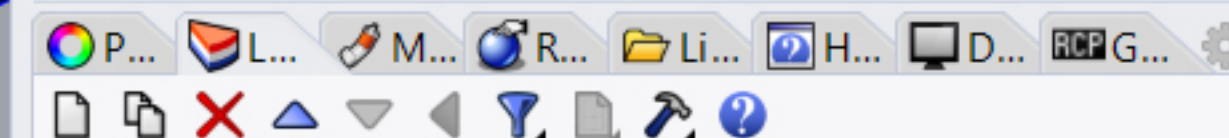
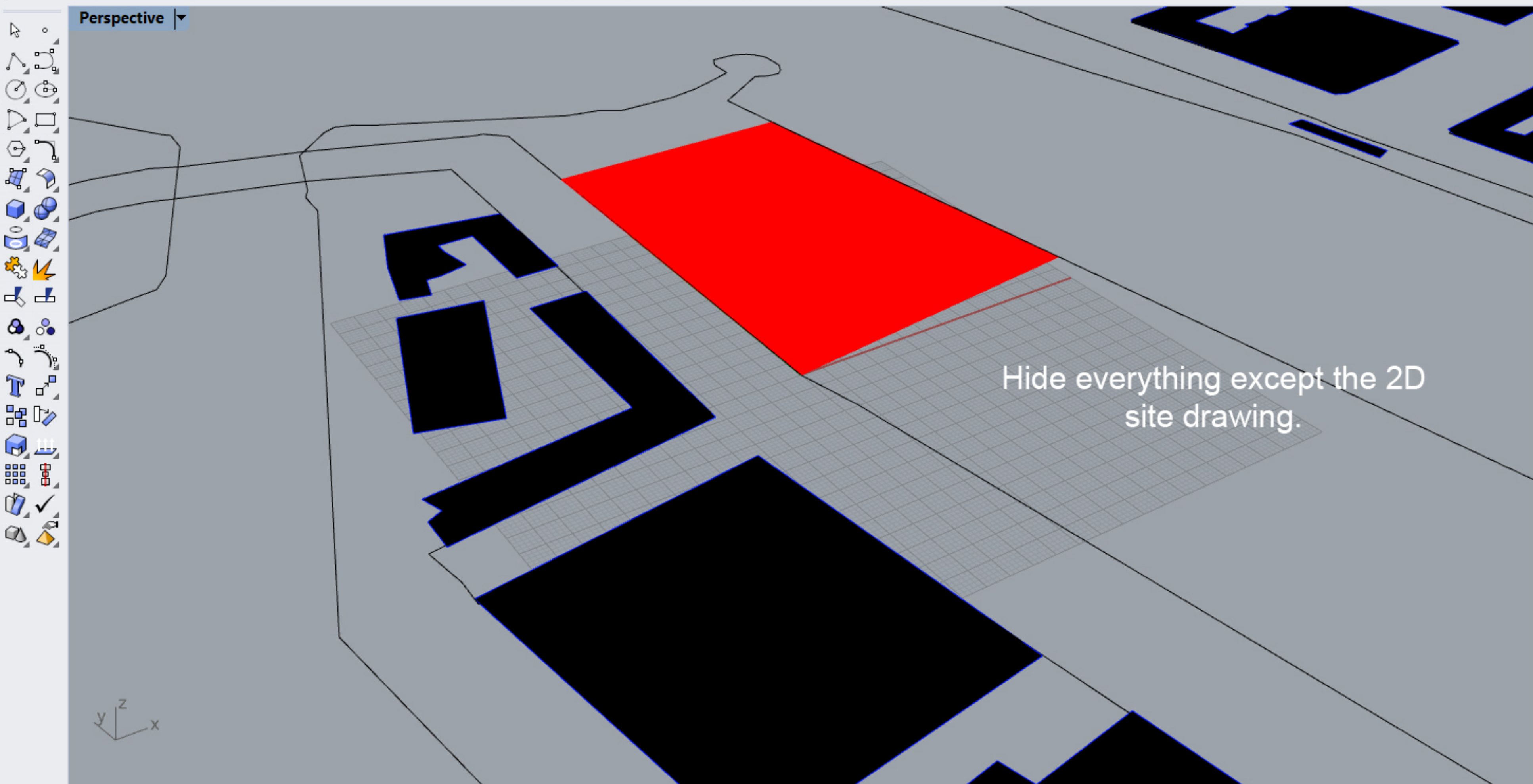


Name		M...	Linetype	Prin...	Print'
Default	<input checked="" type="checkbox"/>	■	○	Continu...	◆ Defau
Buildings	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Hatch	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Land	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Site	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
▼ Final model	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Panels	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Glass	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Frame	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Guiding srf	<input type="checkbox"/>	■	○	Continuo...	◆ Defau

Point to move to <0.5000>: 0,0,0
1 polysurface added to selection.
1 polysurface added to selection.

Command:

Standard CPlanes Set View Display Select Viewport Layout Visibility Transform Curve Tools Surface Tools Solid Tools Mesh Tools Render Tools Drafting New in V6



Name		M...	Linetype	Prin...	Print'
Default	<input checked="" type="checkbox"/>	■	○	Continu...	◆ Defau
Buildings	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Hatch	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Land	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Site	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Final model	<input checked="" type="checkbox"/>	■	○	Continu...	◆ Defau
Panels	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Glass	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Frame	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Guiding srf	<input type="checkbox"/>	■	○	Continuo...	◆ Defau

Hide everything except the 2D site drawing.

Perspective Top Front Right

End Near Point Mid Cen Int Perp Tan Quad Knot Vertex Project Disable

CPlane x 110.3175 y 29.3092 z 0.0000 Meters ■ Default Grid Snap Ortho Planar Osnap SmartTrack Gumball Record History Filter Available physical memory: 7735 MB

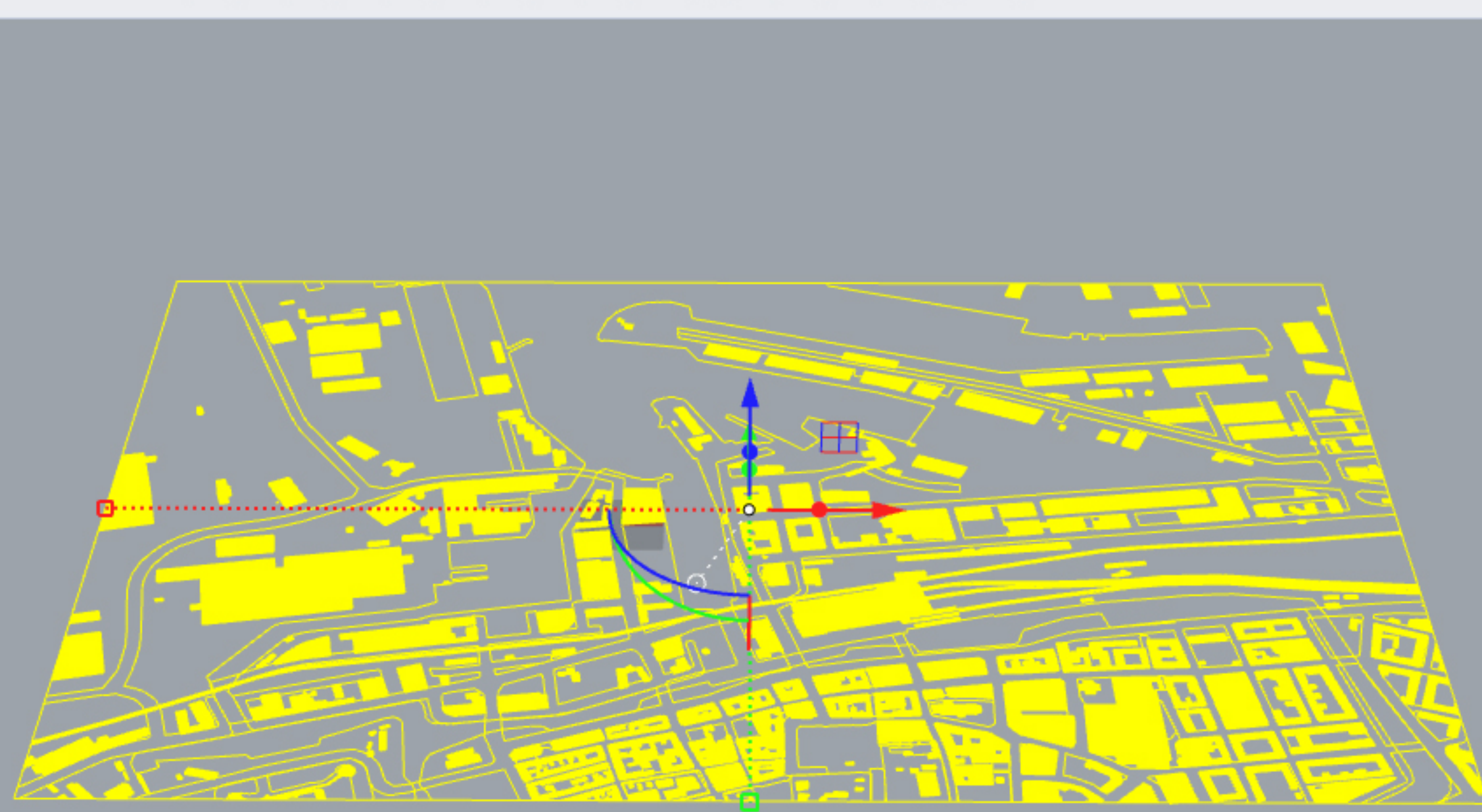
Activate Windows
Go to Settings to activate Windows.

1 polysurface added to selection.
1 polysurface added to selection.
268 hatches, 620 curves added to selection.

Command: Export

- Export
- ExportBitmaps
- ExportWithOrigin
- OptionsExport
- vrayProxyExport
- visExportVRScene
- vrayExportVRScene
- visExportRTVRScene
- visSetExportVRScene
- NextViewport
- TextProperties

Standard | New | Display | Select | Viewport Layout | Visibility | Transform | Curve Tools | Surface Tools | Solid Tools | Mesh Tools | Render Tools | Drafting | New in V6



Select the 2D drawing and use command "Export"

Name	M...	Linetype	Prin...	Print'
Default	<input checked="" type="checkbox"/>	Continuo...	◆	Defau
Buildings	<input type="checkbox"/>	Continuo...	◆	Defau
Hatch	<input type="checkbox"/>	Continuo...	◆	Defau
Land	<input type="checkbox"/>	Continuo...	◆	Defau
Site	<input type="checkbox"/>	Continuo...	◆	Defau
Final model	<input type="checkbox"/>	Continuo...	◆	Defau
Panels	<input type="checkbox"/>	Continuo...	◆	Defau
Glass	<input type="checkbox"/>	Continuo...	◆	Defau
Frame	<input type="checkbox"/>	Continuo...	◆	Defau
Guiding srf	<input type="checkbox"/>	Continuo...	◆	Defau

Perspective | Top | Front | Right

End Near Point Mid Cen Int Perp Tan Quad Knot Vertex Project Disable

CPlane x -1822.2520 y 1688.1033 z 0.0000 Meters Varies Grid Snap **Ortho** Planar **Osnap** SmartTrack **Gumball** Record History Filter CPU use: 0.9 %

Activate Windows
Go to Settings to activate Windows.

1 polysurface added to select
268 hatches, 620 curves added
Command: Export

Command:

Standard CPlanes Se

Perspective



Export dialog box showing file path: This PC > Desktop > AADA20 > Exports

File name: site.dwg

Save as type: AutoCAD Drawing (*.dwg)

Options:

- Save small
- Save geometry only
- Save textures
- Save notes
- Save plugin data

Buttons: Options..., Save, Cancel

Export it as AutoCAD .dwg file



Render Tools Drafting New in V6

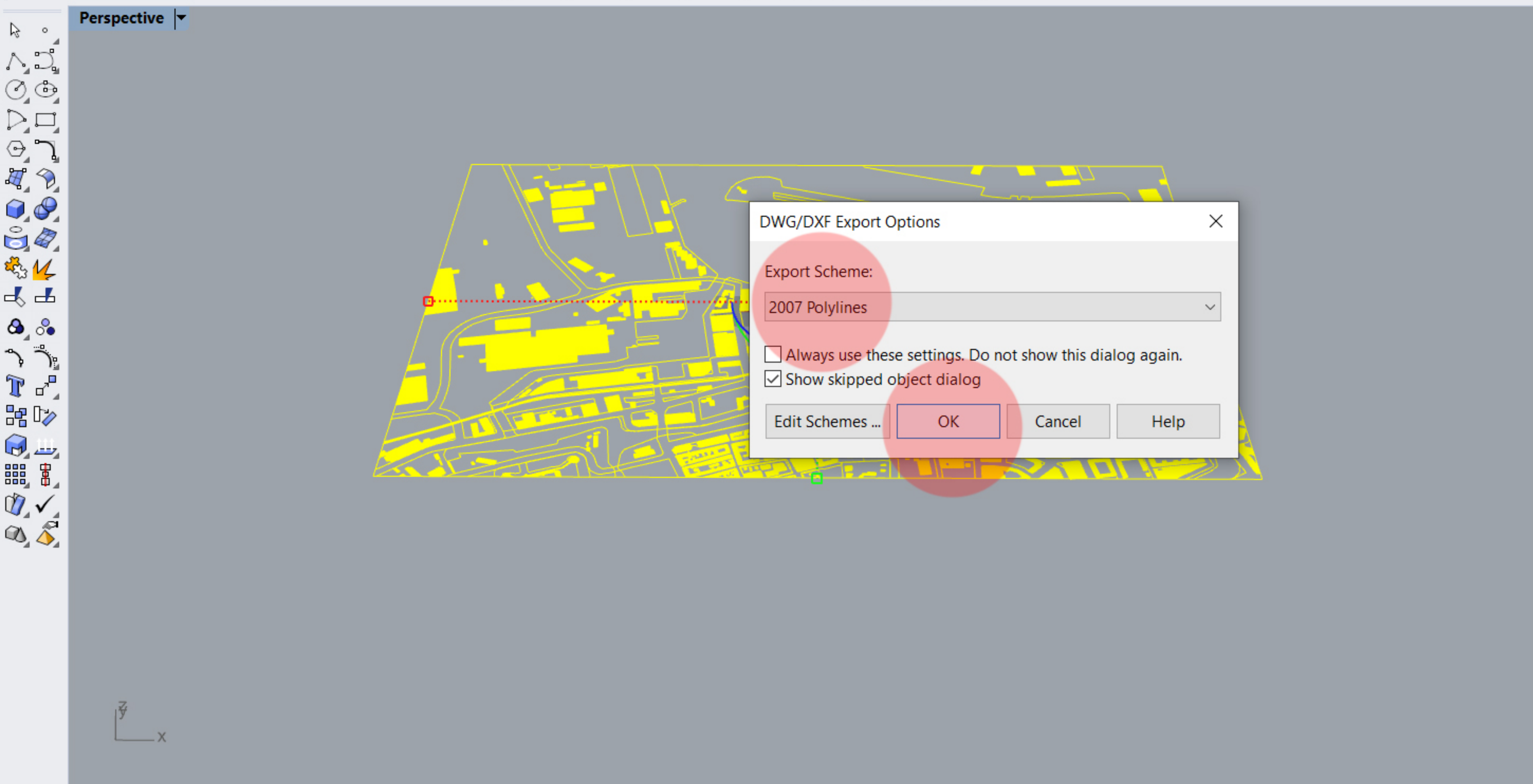


Name	M...	Linetype	Prin...	Print'
Default	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Continu...	Defau
Buildings	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/> Defau
Hatch	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/> Defau
Land	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/> Defau
Site	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/> Defau
Final model	<input type="checkbox"/>	<input type="checkbox"/>	Continu...	Defau
Panels	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/> Defau
Glass	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/> Defau
Frame	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/> Defau
Guiding srf	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/> Defau

1 polysurface added to selection.
268 hatches, 620 curves added to selection.
Command: Export

Command:

Standard CPlanes Set View Display Select Viewport Layout Visibility Transform Curve Tools Surface Tools Solid Tools Mesh Tools Render Tools Drafting New in V6

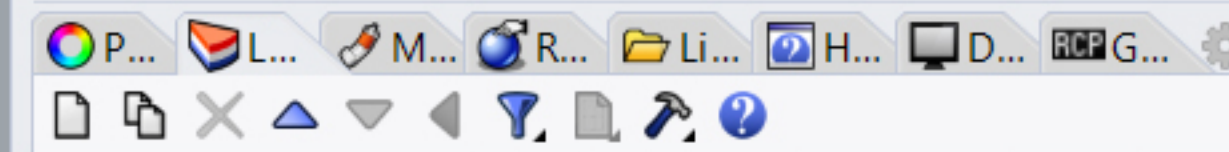


DWG/DXF Export Options

Export Scheme:
2007 Polylines

Always use these settings. Do not show this dialog again.
 Show skipped object dialog

Edit Schemes ... OK Cancel Help



Name		M...	Linetype	Prin...	Print'
Default	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/>	Defau
Buildings	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/>	Defau
Hatch	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/>	Defau
Land	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/>	Defau
Site	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/>	Defau
Final model	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/>	Defau
Panels	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/>	Defau
Glass	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/>	Defau
Frame	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/>	Defau
Guiding srf	<input type="checkbox"/>	<input type="checkbox"/>	Continuo...	<input type="checkbox"/>	Defau

Perspective Top Front Right

End Near Point Mid Cen Int Perp Tan Quad Knot Vertex Project Disable

CPlane x -1657.8804 y 1913.3348 z 0.0000 Meters Varies Grid Snap Ortho Planar Osnap SmartTrack Gumball Record History Filter Available physical memory: 7607 MB

Activate Windows
Go to Settings to activate Windows.

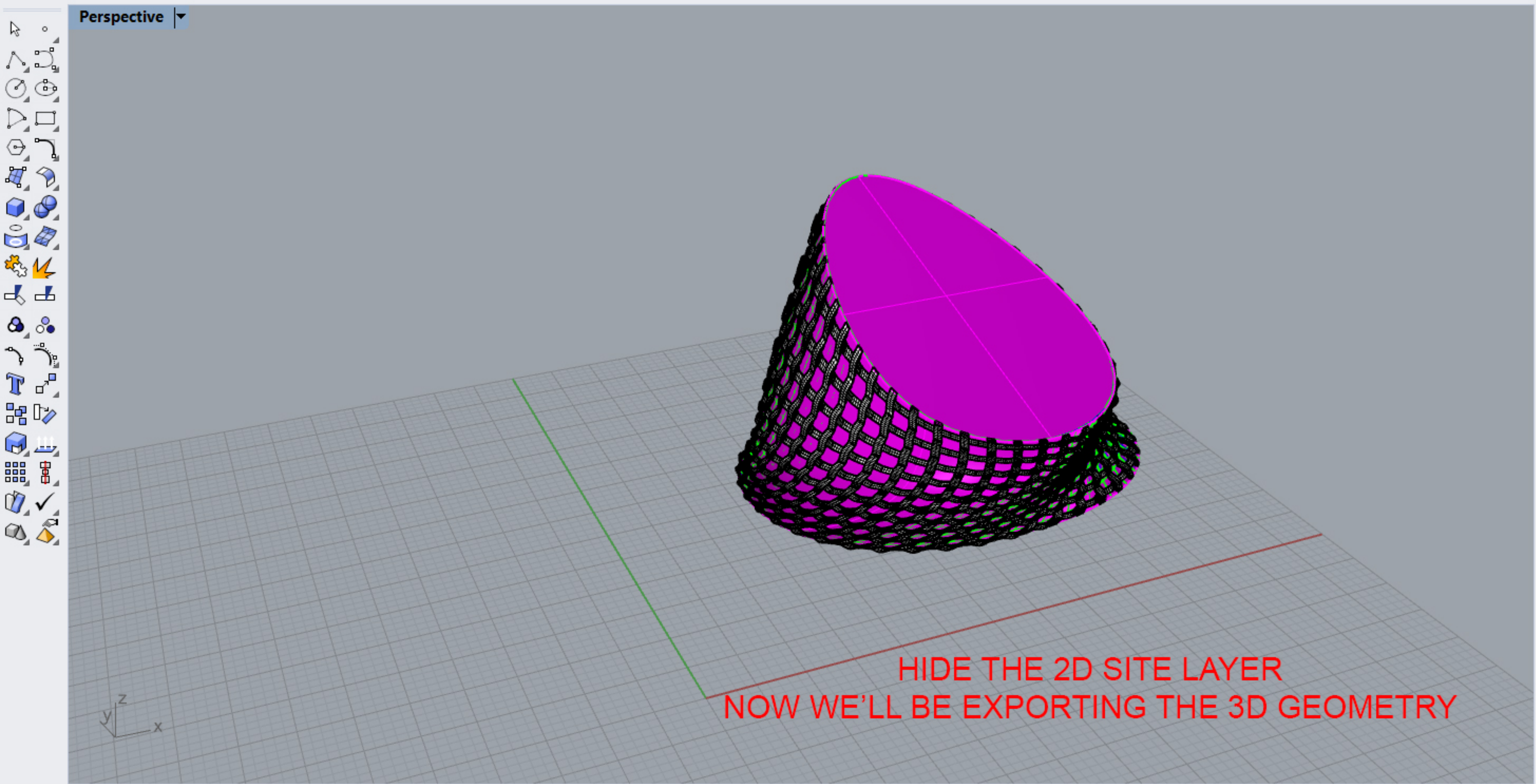
Command: ZS

Command: '_Zoom

Drag a window to zoom (All Dynamic Extents Factor In Out Selected Target 1To1):_Selected

Command:

Standard CPlanes Set View Display Select Viewport Layout Visibility Transform Curve Tools Surface Tools Solid Tools Mesh Tools Render Tools Drafting New in V6



Name		M...	Linetype	Prin...	Print'
Default	<input checked="" type="checkbox"/>	■	○	Continu...	◆ Defau
Buildings	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Hatch	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Land	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Site	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Final model	<input checked="" type="checkbox"/>	■	○	Continu...	◆ Defau
Panels	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Glass	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Frame	<input type="checkbox"/>	■	○	Continuo...	◆ Defau
Guiding srf	<input type="checkbox"/>	■	○	Continuo...	◆ Defau

Perspective Top Front Right

End Near Point Mid Cen Int Perp Tan Quad Knot Vertex Project Disable

CPlane x 76.4660 y 48.3504 z 0.0000 Meters ■ Default Grid Snap Ortho Planar Osnap SmartTrack Gumball Record History Filter CPU use: 4.1 %

Activate Windows
Go to Settings to activate Windows.

File successfully saved as Rhino 6 file C:\Users\gkird\Desktop\AADA20\Exports\traming.3dm.

1 polysurface added to selection.

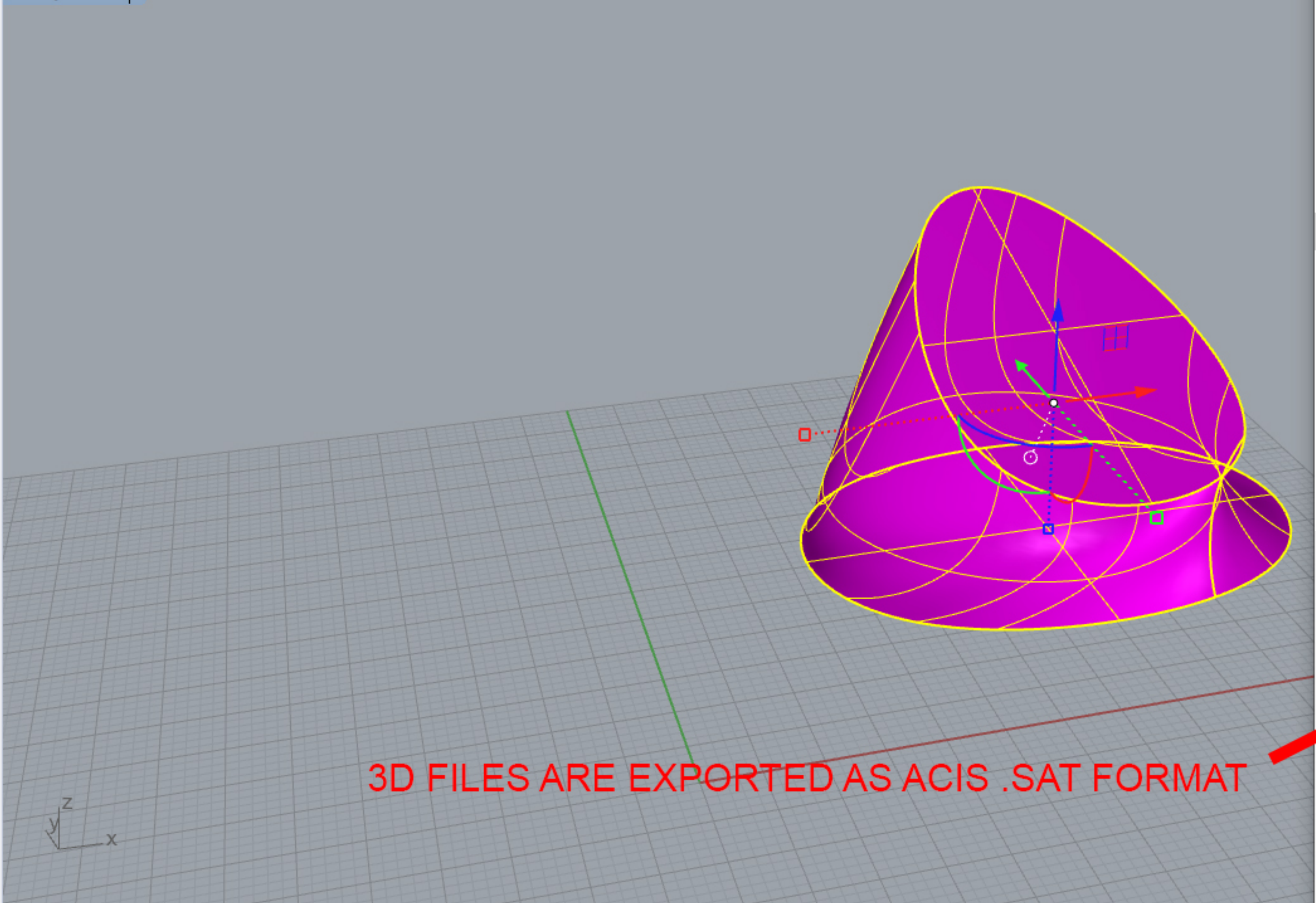
Command: Export

Command:

Standard CPlanes Set View Display Select Viewport Layout Visibility Transform Curve Tools Surface Tools Solid Tools Mes



Perspective



3D FILES ARE EXPORTED AS ACIS .SAT FORMAT

Export

« AADA20 » Exports

Search Exports

Organize New folder

Name Date modified Type

No items match your search.

Quick access

- Desktop
- Downloads
- Stuff

This PC

- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Local Disk (C:)
- Network

File name: volume.sat

Save as type: ACIS (*.sat)

- Save small
- Save geometry only
- Save textures
- Save notes
- Save plugin data

Options...

Save Cancel

Hide Folders

End Near Point Mid Cen Int Perp Tan Quad Knot Vertex Project Disable

CPlane x 50.4161 y 17.3532 z 0.0000 Meters Final model::Guiding srf Grid Snap Ortho Planar Osnap SmartTrack Gumball Record History Filter Absolute tolerance: 0.0001

Activate Windows
Go to Settings to activate Windows.

File successfully saved as Rhino 6 file C:\Users\gkird\Desktop\AADA20\Exports\traming.3dm.

1 polysurface added to selection.

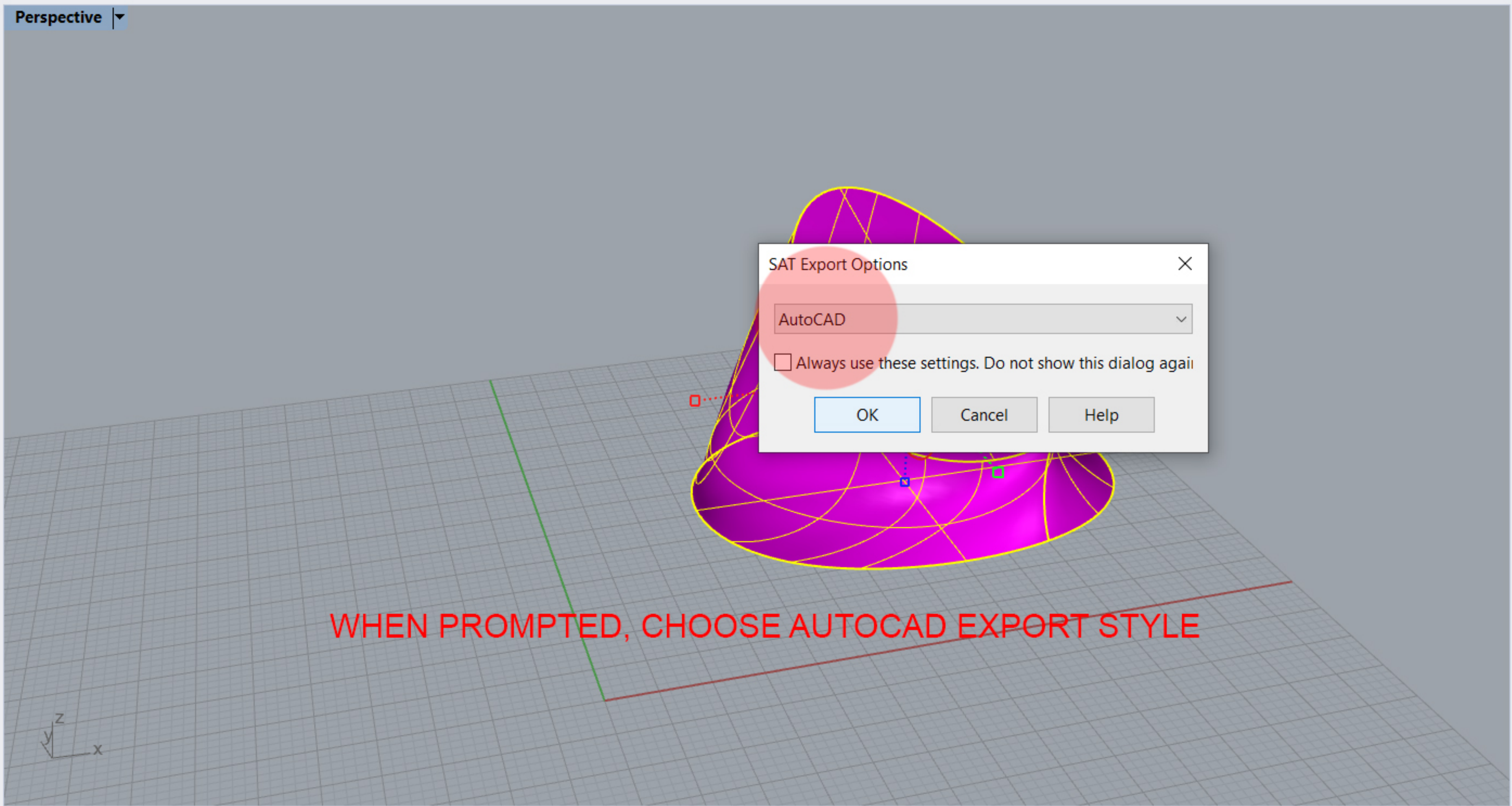
Command: Export

Command:

Standard CPlanes Set View Display Select Viewport Layout Visibility Transform Curve Tools Surface Tools Solid Tools Mesh Tools Render Tools Drafting New in V6



Perspective



SAT Export Options

AutoCAD

Always use these settings. Do not show this dialog again

OK Cancel Help



Name	Light	Lock	M...	Linetype	Prin...	Print'
Default	Lightbulb	Lock	Black	Continuo...	Black Diamond	Defau
Buildings	Lightbulb	Lock	Blue	Continuo...	Blue Diamond	Defau
Hatch	Lightbulb	Lock	Black	Continuo...	Black Diamond	Defau
Land	Lightbulb	Lock	Black	Continuo...	Black Diamond	Defau
Site	Lightbulb	Lock	Red	Continuo...	Red Diamond	Defau
Final model	Lightbulb	Lock	Black	Continuo...	Black Diamond	Defau
Panels	Lightbulb	Lock	Black	Continuo...	Black Diamond	Defau
Glass	Lightbulb	Lock	Blue	Continuo...	Blue Diamond	Defau
Frame	Lightbulb	Lock	Green	Continuo...	Green Diamond	Defau
Guiding srf	Lightbulb	Lock	Pink	Continu...	Pink Diamond	Defau

End Near Point Mid Cen Int Perp Tan Quad Knot Vertex Project Disable

CPlane x 50.4161 y 17.3532 z 0.0000 Meters Final model::Guiding srf Grid Snap Ortho Planar Osnap SmartTrack Gumball Record History Filter Available physical memory: 7120 MB

Activate Windows
Go to Settings to activate Windows.

File successfully saved as C:\Users\gkird\Desktop\AADA20\Exports\volume.sat.

400 polysurfaces added to selection.

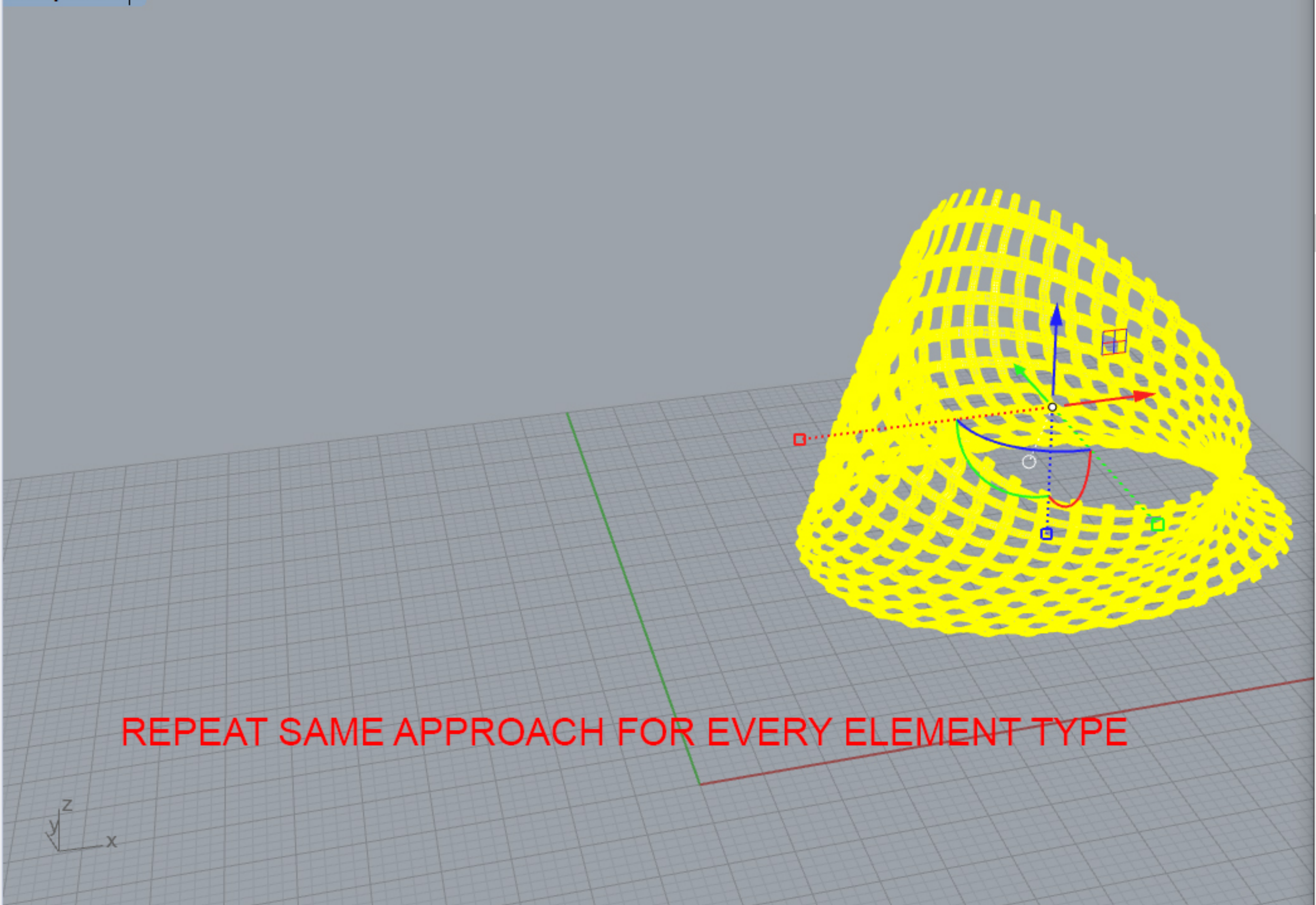
Command: Export

Command:

Standard CPlanes Set View Display Select Viewport Layout Visibility Transform Curve Tools Surface Tools Solid Tools Mes



Perspective



Perspective Top Front Right

End Near Point Mid Cen Int Perp Tan Quad Knot Vertex Project Disable

CPlane x 9.9793 y 183.5578 z 0.0000 Meters Final model::Panels Grid Snap Ortho Planar Osnap SmartTrack Gumball Record History Filter Memory use: 1750 MB

Export

« AADA20 » Exports

Search Exports

Organize New folder

Name	Date modified	Type
volume.sat	2019-10-30 14:23	Stand

File name: panels

Save as type: ACIS (*.sat)

Save small
 Save geometry only
 Save textures
 Save notes
 Save plugin data

Options... Save Cancel

Activate Windows
Go to Settings to activate Windows.

File successfully saved as C:\Users\gkird\Desktop\AADA20\Exports\panels.sat.

1600 polysurfaces added to selection.

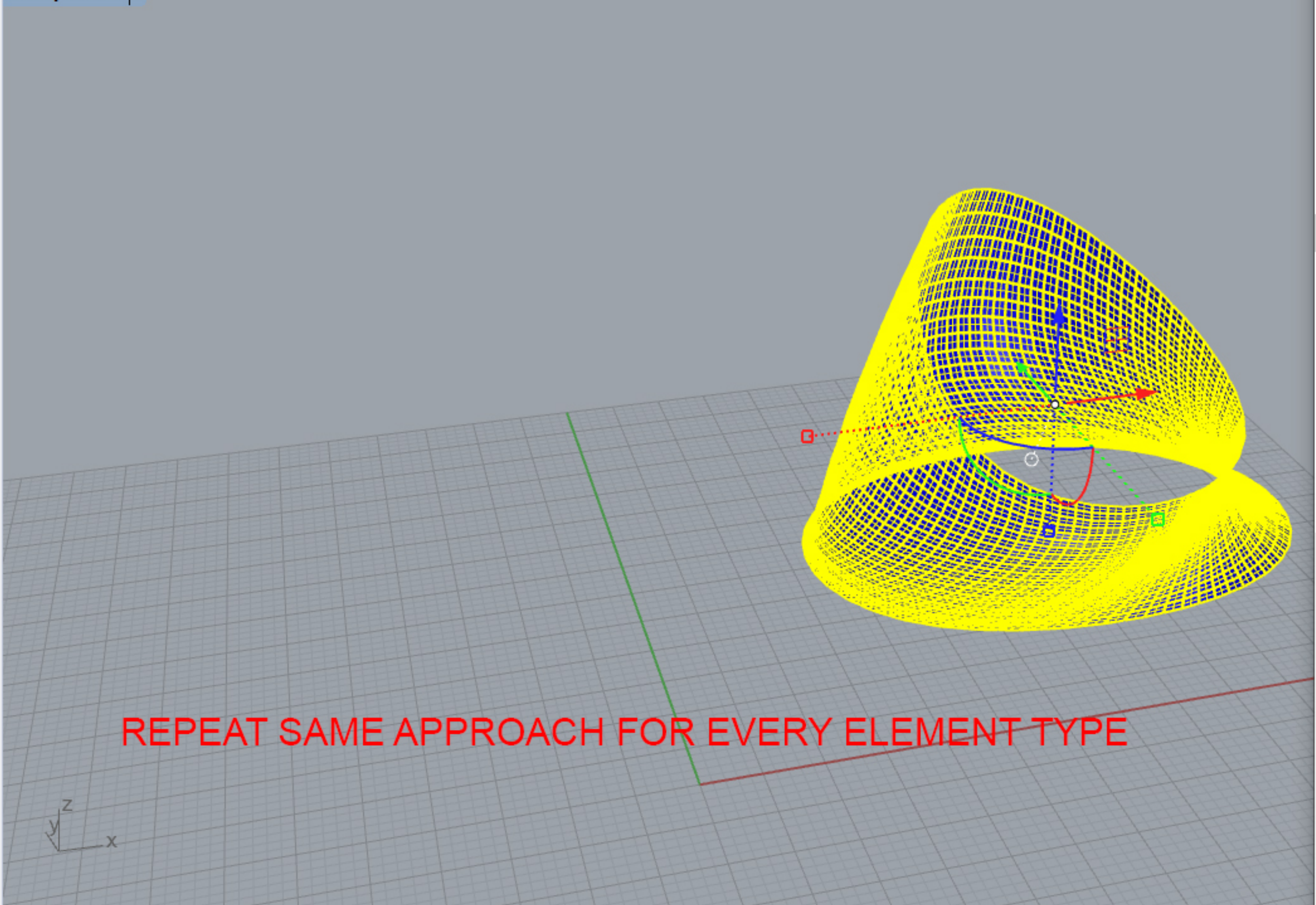
Command: Export

Command:

Standard CPlanes Set View Display Select Viewport Layout Visibility Transform Curve Tools Surface Tools Solid Tools Mes



Perspective



Perspective Top Front Right

End Near Point Mid Cen Int Perp Tan Quad Knot Vertex Project Disable

CPlane x 17.6529 y 169.3108 z 0.0000 Meters Final model::Glass Grid Snap Ortho Planar Osnap SmartTrack Gumball Record History Filter CPU use: 3.1 %

Export

« AADA20 » Exports

Search Exports

Organize New folder

Name	Date modified	Type
panels.sat	2019-10-30 14:24	Stand
volume.sat	2019-10-30 14:23	Stand

File name: glass

Save as type: ACIS (*.sat)

Save small
 Save geometry only
 Save textures
 Save notes
 Save plugin data

Options... Save Cancel

Activate Windows
Go to Settings to activate Windows.

File successfully saved as C:\Users\gkird\Desktop\AADA20\Exports\glass.sat.

400 polysurfaces added to selection.

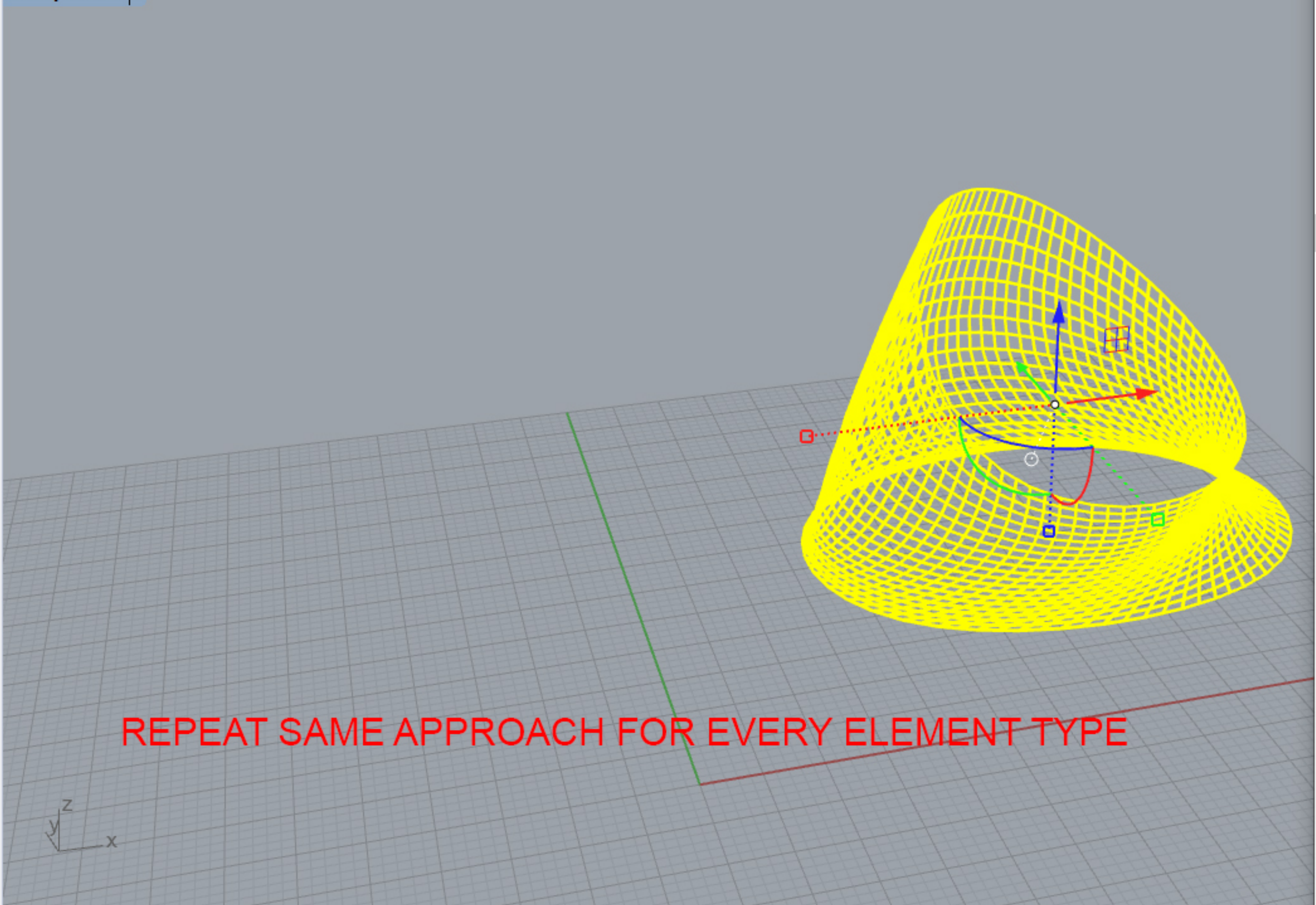
Command: Export

Command:

Standard CPlanes Set View Display Select Viewport Layout Visibility Transform Curve Tools Surface Tools Solid Tools Mes



Perspective



Perspective Top Front Right

End Near Point Mid Cen Int Perp Tan Quad Knot Vertex Project Disable

CPlane x 10.6658 y 159.5423 z 0.0000 Meters Final model::Frame Grid Snap Ortho Planar Osnap SmartTrack Gumball Record History Filter CPU use: 5.2 %

Export

« AADA20 » Exports

Search Exports

Organize New folder

Name	Date modified	Type
glass.sat	2019-10-30 14:24	Stand
panels.sat	2019-10-30 14:24	Stand
volume.sat	2019-10-30 14:23	Stand

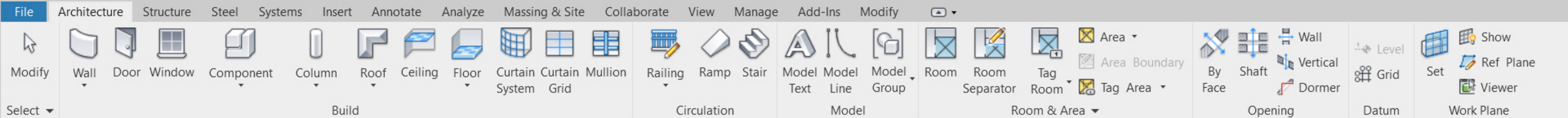
File name: frame

Save as type: ACIS (*.sat)

Save small
 Save geometry only
 Save textures
 Save notes
 Save plugin data

Options... Save Cancel

Activate Windows
Go to Settings to activate Windows.



Properties

Floor Plan

Floor Plan: Site Edit Type

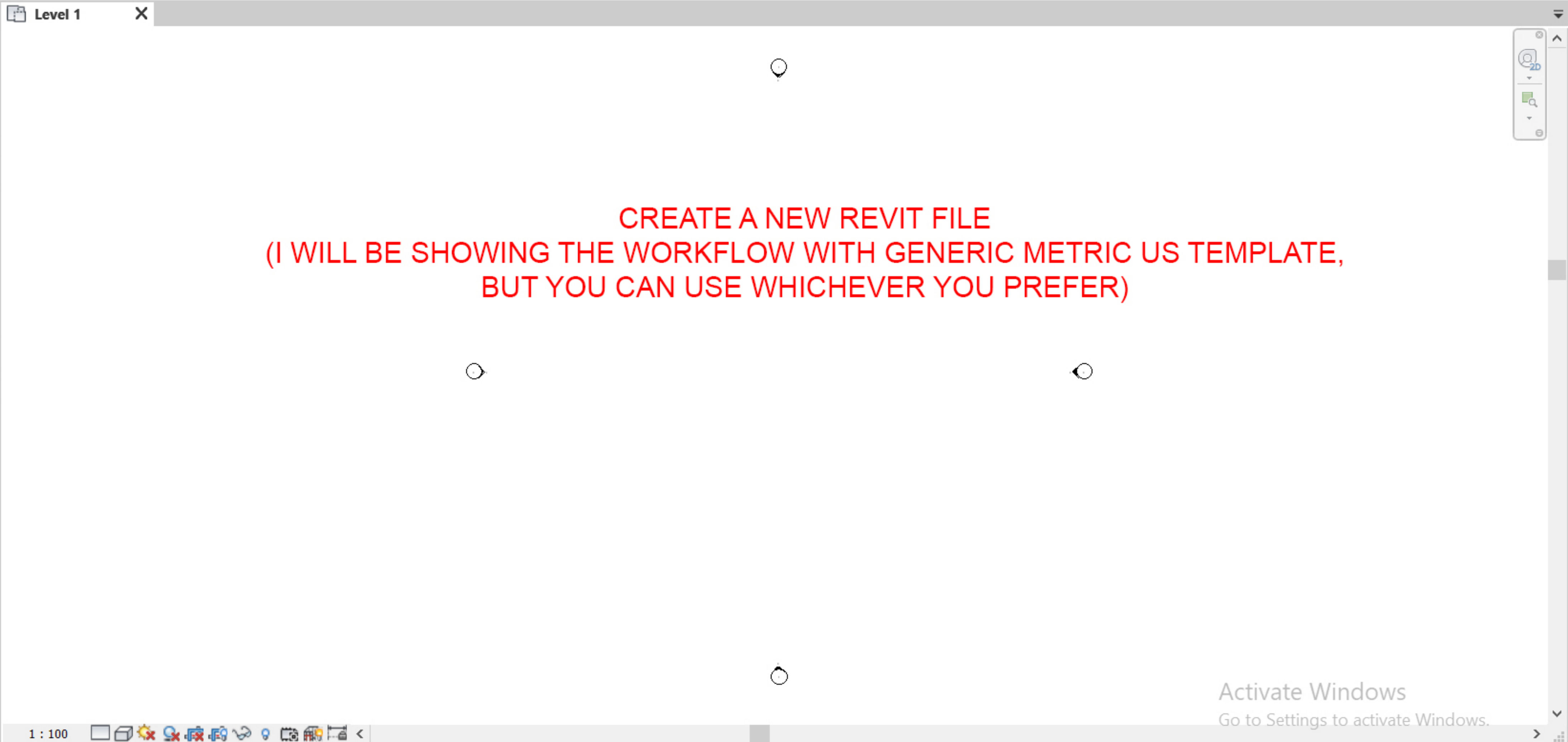
Graphics	
View Scale	1 : 100
Scale Value	1 : 100
Display Model	Normal
Detail Level	Coarse
Parts Visibility	Show Original
Visibility/Grp...	Edit...
Graphic Displa...	Edit...
Orientation	Project North

Properties help Apply

Project Browser - Project2

- Views (all)
 - Floor Plans
 - Level 1
 - Level 2
 - Site
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West
 - Legends
 - Schedules/Quantities (all)
 - Sheets (all)
 - Families
 - Groups
 - Revit Links

CREATE A NEW REVIT FILE
(I WILL BE SHOWING THE WORKFLOW WITH GENERIC METRIC US TEMPLATE,
BUT YOU CAN USE WHICHEVER YOU PREFER)



Activate Windows
Go to Settings to activate Windows.

Modify Select

Link Revit Link IFC Link CAD DWF Markup Decal Link Point Cloud Coordination Model Manage Links **Import CAD** Import abXML from File Insert Image Manage Images Load Load as Family Group

Import CAD

Imports data or 3D geometry from other CAD programs to a Revit project or family.

You can import data stored in the following formats: 3DM, DGN, DWG, DXF, SAT, and SKP.

Press F1 for more help

Properties

Floor Plan

Floor Plan: Site Edit Type

Graphics	
View Scale	1 : 100
Scale Value	1: 100
Display Model	Normal
Detail Level	Coarse
Parts Visibility	Show Original
Visibility/Grap...	Edit...
Graphic Displa...	Edit...
Orientation	Project North

Properties help Apply

Project Browser - Project2

- Views (all)
 - Floor Plans
 - Level 1**
 - Level 2
 - Site
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West
 - Legends
 - Schedules/Quantities (all)
 - Sheets (all)
 - Families
 - Groups
 - Revit Links

FIRST WE WILL IMPORT THE 2D SITE.
GO TO THE INSERT TAB -> CLICK ON
IMPORT CAD

Activate Windows
Go to Settings to activate Windows.

Modify Select

Link Revit Link IFC Link CAD DWF Markup

Decal Link

Point Cloud Coordination Model Manage Links

Import CAD Import gbXML Insert from File Image Manage Images

Load Family Load as Group

Import Load from Library

Properties

Floor Plan

Floor Plan: Site Edit Type

Graphics

View Scale	1 : 100
Scale Value	1 : 100
Display Model	Normal
Detail Level	Coarse
Parts Visibility	Show Original
Visibility/Grap...	Edit...
Graphic Displa...	Edit...
Orientation	Project North

Properties help Apply

Project Browser - Project2

- Views (all)
 - Floor Plans
 - Level 1**
 - Level 2
 - Site
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West
 - Legends
 - Schedules/Quantities (all)
 - Sheets (all)
 - Families
 - Groups
 - Revit Links

Import CAD Formats

Look in: Exports

Name	Date modified	Typ
site.dwg	2019-10-30 14:11	Aut

File name: site.dwg

Files of type: DWG Files (*.dwg)

Colors: Preserve Positioning: Auto - Origin to Origin

Layers/Levels: All Place at: Level 1

Import units: Auto-Detect 1.000000

Orient to View

Correct lines that are slightly off axis

Open Cancel

Activate Windows
Go to Settings to activate Windows.

Modify Select

Link Revit Link IFC Link CAD DWF Markup Decal Link Point Cloud Coordination Model Manage Links Import CAD Import gbXML Insert from File Import Image Manage Images Load Family Load as Group Load from Library

Properties

Floor Plan

Floor Plan: Level 1 Edit Type

View Scale	1 : 100
Scale Value	1: 100
Display Model	Normal
Detail Level	Coarse
Parts Visibility	Show Original
Visibility/Grp...	Edit...
Graphic Displa...	Edit...
Orientation	Project North

Project Browser - Project2

- Views (all)
 - Floor Plans
 - Level 1**
 - Level 2
 - Site
 - Elevations (Building Elevations)
 - East
 - North
 - South
 - West
 - Legends
 - Schedules/Quantities (all)
 - Sheets (all)
 - Families
 - Groups
 - Revit Links



DOUBLE CHECK THAT THE SITE IS IMPORTED INTO LEVEL 1

Activate Windows
Go to Settings to activate Windows.

Modify Select

Show Mass Form and Floors Conceptual

In-Place Mass Place Mass Curtain System Roof Wall Floor Toposurface Site Component Parking Building Pad Split Surface Merge Subregion Property Line Graded Region Label Contours

Model Site Modify Site

First we will begin with the solid volume used for floor slabs/roof slab. To import it, go to Massing and Site tab and click on In-Place Mass.

Properties

Floor Plan

Floor Plan: Level 1

Graphics

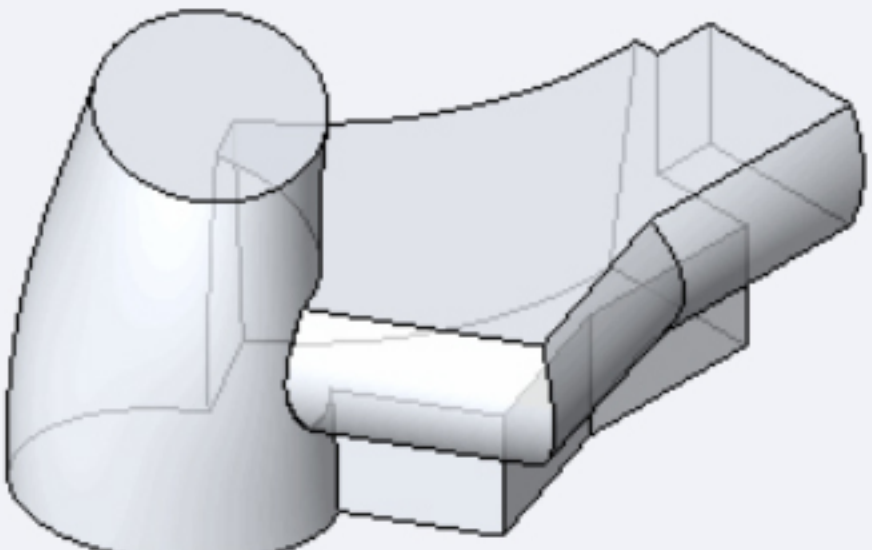
View Scale	1 : 100
Scale Value	1 : 100
Display Model	Normal
Detail Level	Coarse
Parts Visibility	Show Original
Visibility/Grap...	Edit...
Graphic Displa...	Edit...
Orientation	Project North

Press F1 for more help

In-Place Mass

Creates a mass that is unique to the project.

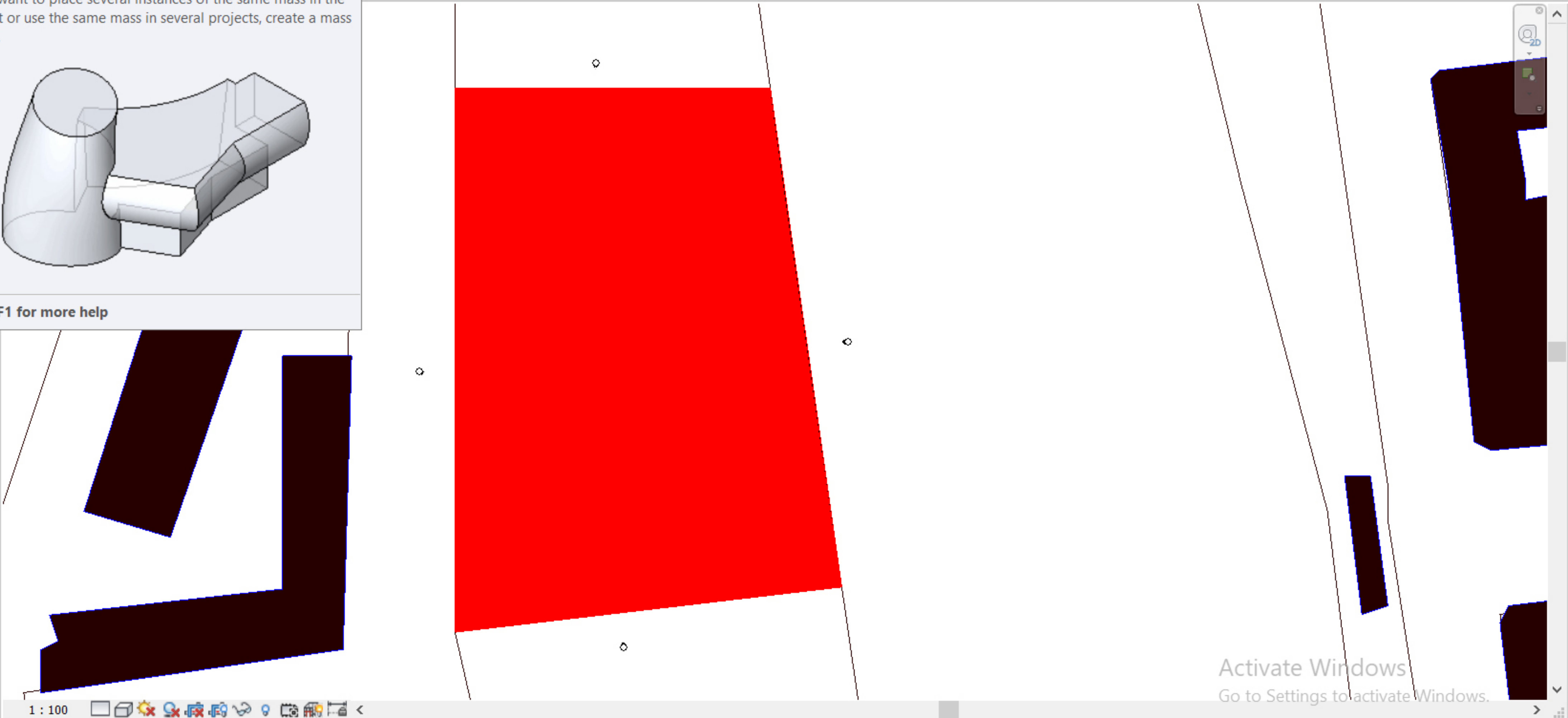
If you want to place several instances of the same mass in the project or use the same mass in several projects, create a mass family.



Apply

Project Browser - Project3

- Views (all)
 - Floor Plans
 - Level 1**
 - Level 2
 - Site
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West
 - Legends
 - Schedules/Quantities (all)
 - Sheets (all)
 - Families
 - Groups
 - Revit Links



Activate Windows
Go to Settings to activate Windows.

Modify Select

Show Mass Form and Floors Conceptual Mass

In-Place Mass Place Mass

Curtain System Roof Wall Floor Model by Face

Toposurface Site Component Model Site

Parking Component Building Pad

Split Surface Surface Merge Surfaces

Subregion Property Line Graded Region

Label Contours

Properties

Floor Plan

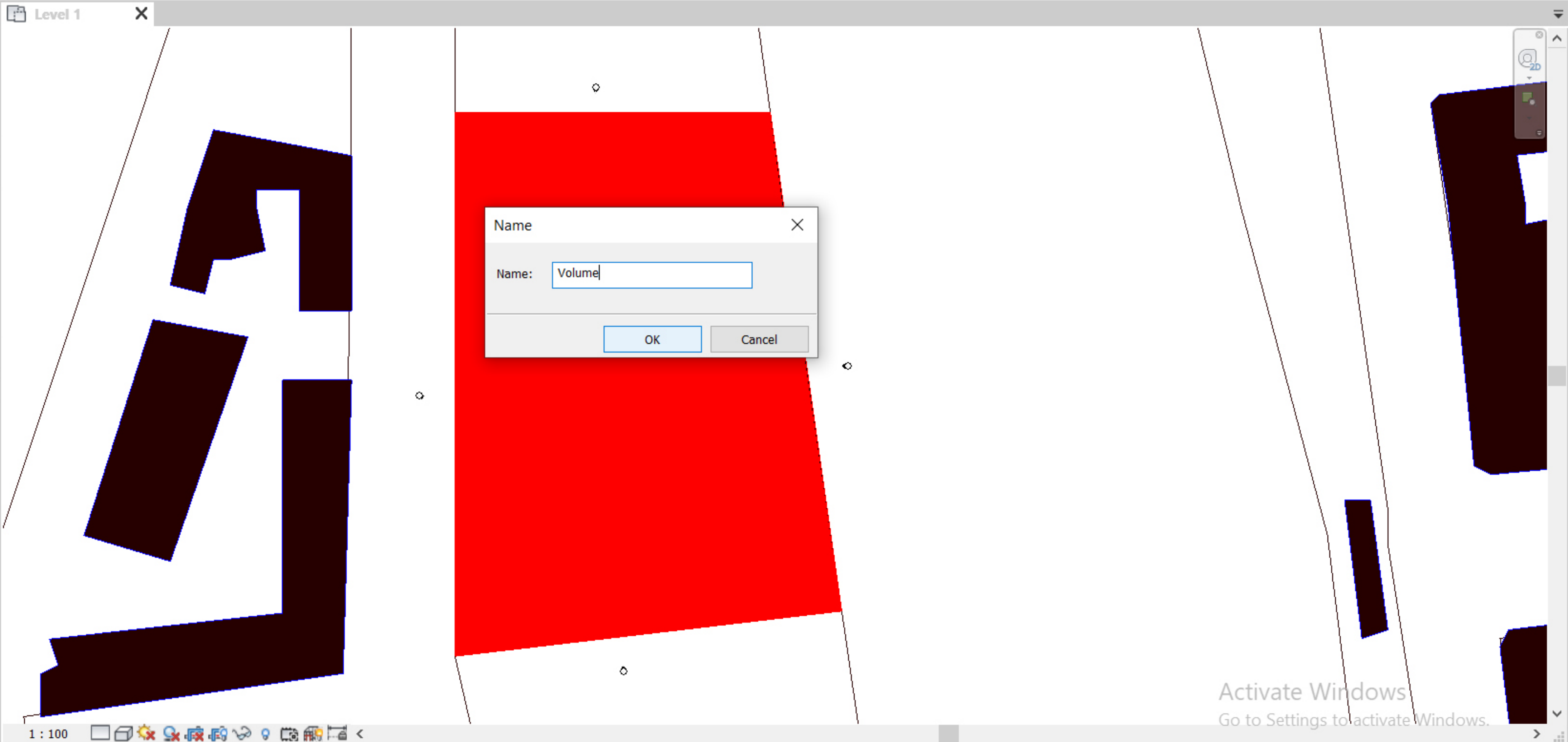
Floor Plan: Level 1 Edit Type

View Scale	1 : 100
Scale Value	1: 100
Display Model	Normal
Detail Level	Coarse
Parts Visibility	Show Original
Visibility/Grp...	Edit...
Graphic Displa...	Edit...
Orientation	Project North

Properties help Apply

Project Browser - Project3

- Views (all)
 - Floor Plans
 - Level 1**
 - Level 2
 - Site
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West
 - Legends
 - Schedules/Quantities (all)
 - Sheets (all)
 - Families
 - Groups
 - Revit Links



File Create **Insert** View Manage Add-Ins Modify

Modify Select Link Revit IFC CAD Link Markup Cloud Coordination Model Links Import CAD Import Image Manage Load family Finish Mass Cancel Mass In-Place Editor

Import CAD

Imports data or 3D geometry from other CAD programs to a Revit project or family.

You can import data stored in the following formats: 3DM, DGN, DWG, DXF, SAT, and SKP.

Press F1 for more help

Properties

Family: Mass Edit Type

Constraints

Host

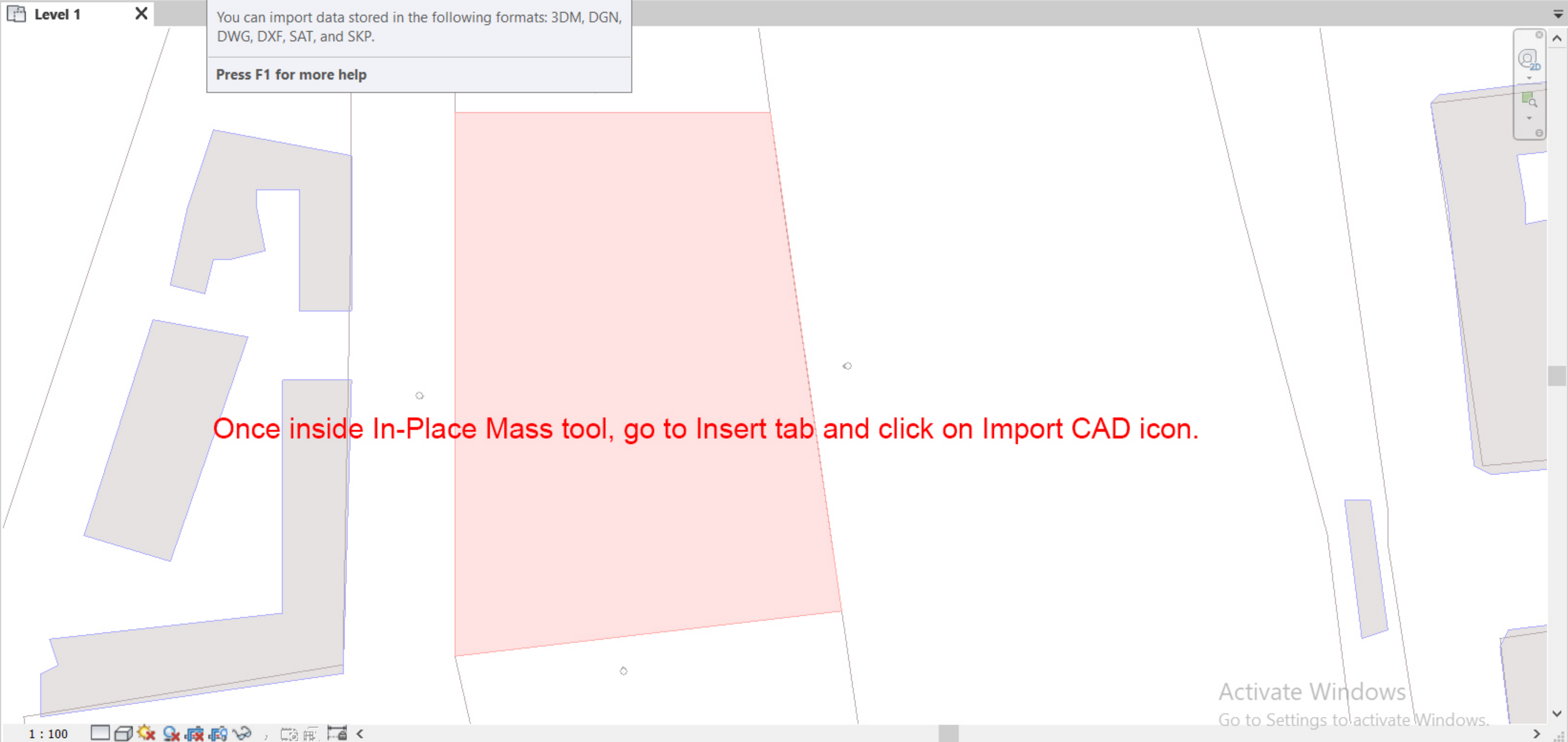
Identity Data

OmniClass Numb...

OmniClass Title

Project Browser - Project3

- Views (all)
- Floor Plans
 - Level 1**
 - Level 2
 - Site
- Elevations (Building Elevation)
 - East
 - North
 - South
 - West
- Legends
- Schedules/Quantities (all)
- Sheets (all)
- Families
- Groups
- Revit Links



Once inside In-Place Mass tool, go to Insert tab and click on Import CAD icon.

File Create Insert View Manage Add-Ins Modify

Modify Link Revit Link IFC Link CAD DWF Markup Cloud Coordination Model Manage Links Import CAD Import gbXML Insert from File Image Manage Images Import Family Types Load Family Finish Mass Cancel Mass

Select Link Import Load from Library In-Place Editor

Properties

Family: Mass Edit Type

Constraints

Host

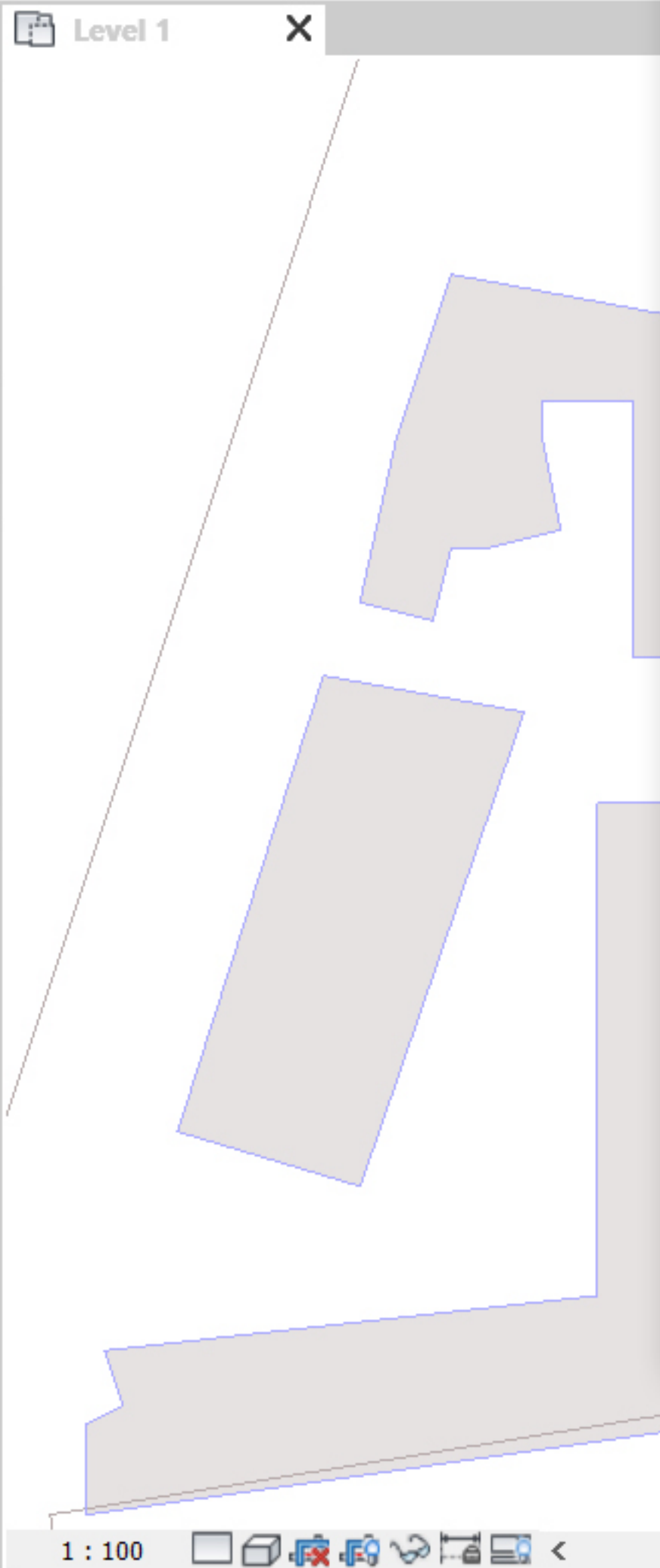
Identity Data

OmniClass Numb...
OmniClass Title

Properties help Apply

Project Browser - Project3

- Views (all)
 - Floor Plans
 - Level 1**
 - Level 2
 - Site
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West
 - Legends
 - Schedules/Quantities (all)
 - Sheets (all)
 - Families
 - Groups
 - Revit Links



Import CAD Formats

Look in: Exports

Name	Date modified	Type
frame.sat	2019-10-30 14:24	Star
glass.sat	2019-10-30 14:24	Star
panels.sat	2019-10-30 14:24	Star
volume.sat	2019-10-30 14:23	Star

File name: volume.sat

Files of type: ACIS SAT Files (*.sat)

Import as Category: Mass

Tools How can 3D shapes be used? Open Cancel

Navigate to your Volume export file and make sure that you import it as a Mass

Activate Windows
Go to Settings to activate Windows.

File Create Insert View Manage Add-Ins Modify

Modify Select Link Revit IFC CAD Link Markup Cloud Coordination Model Manage Links Import CAD Import gbXML Insert from File Image Manage Images Import Family Types Load Family Load from Library

Finish Mass Cancel

Finish Mass
Saves changes and exits the In-Place Mass tool.
Press F1 for more help

Properties

Family: Mass Edit Type

Constraints

Host

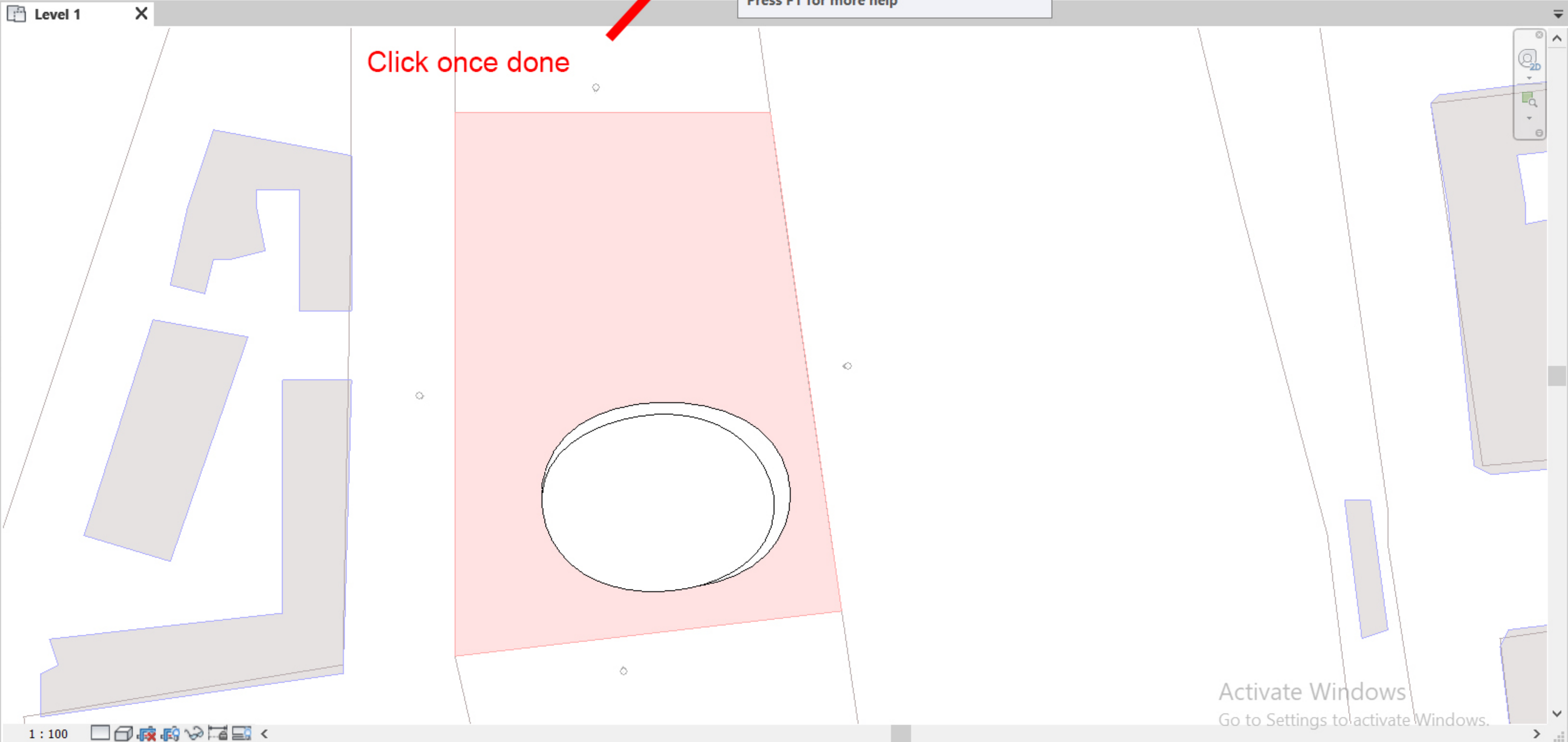
Identity Data

OmniClass Numb...
OmniClass Title

Properties help Apply

Project Browser - Project3

- Views (all)
 - Floor Plans
 - Level 1**
 - Level 2
 - Site
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West
 - Legends
 - Schedules/Quantities (all)
 - Sheets (all)
 - Families
 - Groups
 - Revit Links



File Architecture Structure Steel Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Modify

Modify Select Wall Door Window Component Column Roof Ceiling Floor Curtain System Mullion Railing Ramp Stair Model Text Model Line Model Group Room Room Separator Tag Room Area Boundary Tag Area

Properties

Elevation Building Elevation

Elevation: East Edit Type

Graphics

View Scale	1 : 100
Scale Value	1 : 100
Display Model	Normal
Detail Level	Coarse
Parts Visibility	Show Original
Visibility/Grp...	Edit...
Graphic Displa...	Edit...
Hide at scales ...	1 : 5000

Properties help Apply

Project Browser - Project3

- Views (all)
 - Floor Plans
 - Level 1
 - Level 2
 - Site
 - Elevations (Building Elevation)
 - East**
 - North
 - South
 - West
 - Legends
 - Schedules/Quantities (all)
 - Sheets (all)
 - Families
 - Groups
 - Revit Links

Level 1 East North

1 : 100

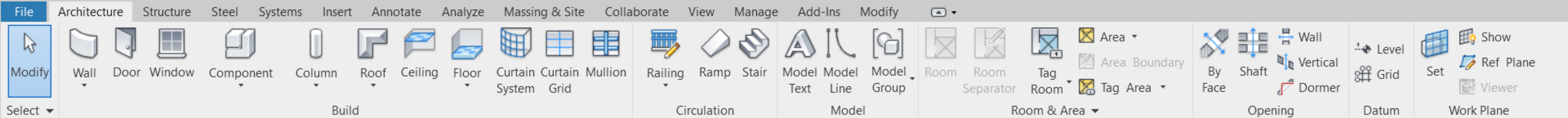
Go to one of the elevations and create any amount of additional levels that you would need.

Level (LL)

Places a level in view.

Levels are 3D elements that are only visible in views that intersect the level extents. Most building elements, such as floors and beams, are hosted by levels. Other elements, such as columns and walls, are constrained to levels.

Press F1 for more help



Properties

Elevation Building Elevation

Elevation: East Edit Type

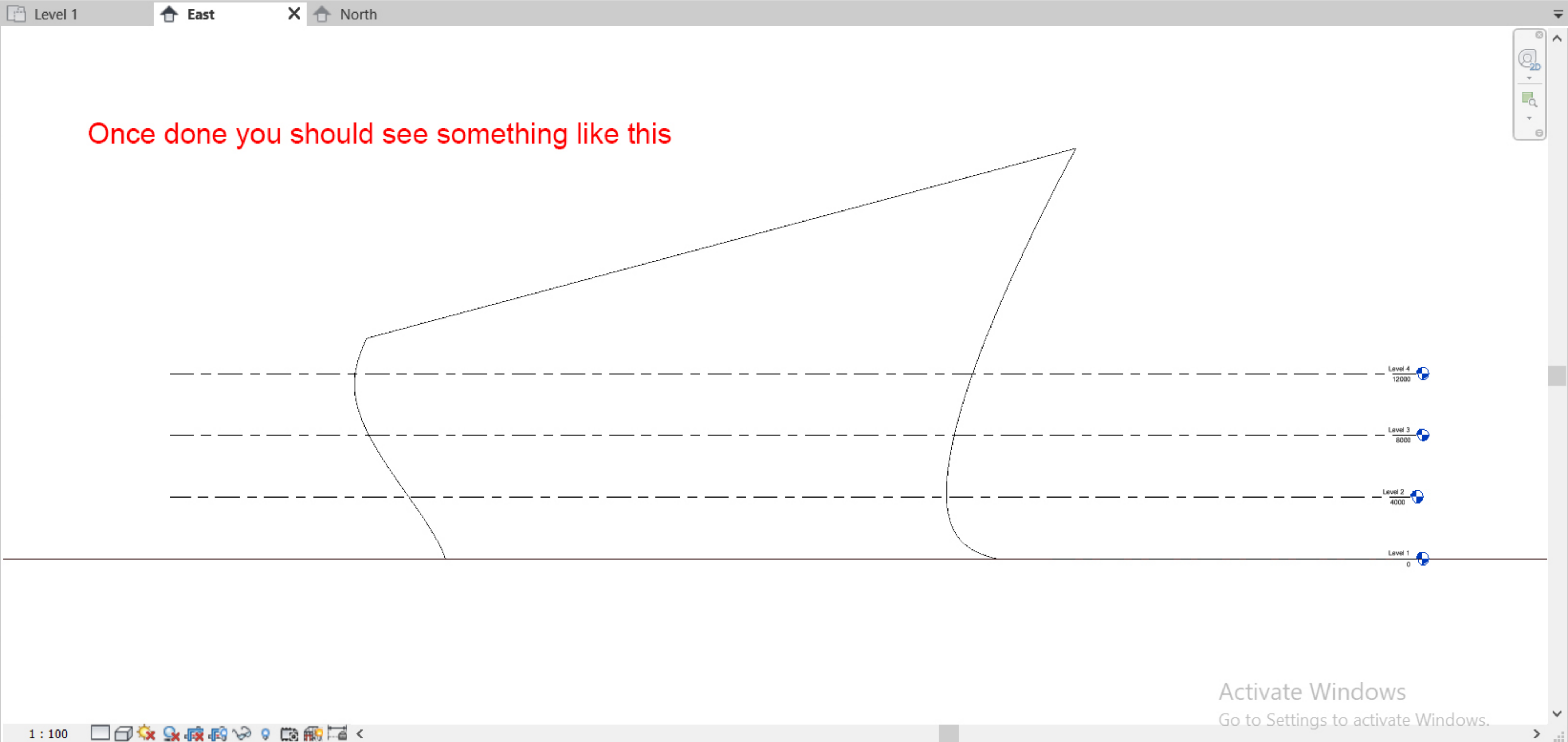
Graphics

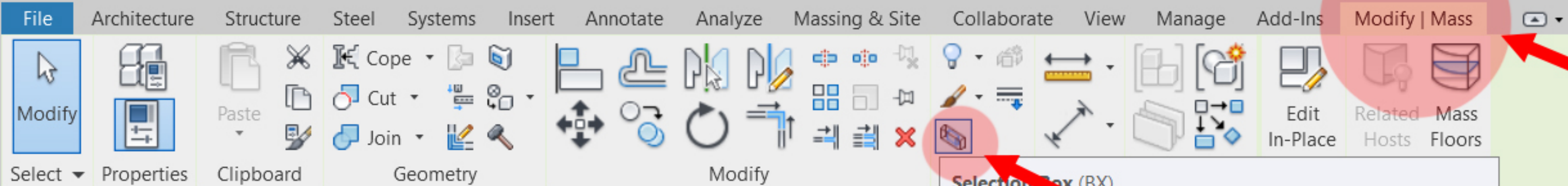
View Scale	1 : 100
Scale Value	1: 100
Display Model	Normal
Detail Level	Coarse
Parts Visibility	Show Original
Visibility/Grp...	Edit...
Graphic Displa...	Edit...
Hide at scales ...	1 : 5000

Properties help Apply

Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - Elevations (Building Elevation)
 - East**
 - North
 - South
 - West
 - Legends
 - Schedules/Quantities (all)





Selection Box (BX)
Isolates selected elements in the current view (if a 3D isometric view) or the default 3D view.
Press F1 for more help | Video is loading...

In plan view select the volume mass. Go to Modify Mass tab and click on Selection Box tool.

Properties

Level 1 | East | North

Mass (1) | Edit Type

Constraints

Elevation	0.0
Moves With N...	<input type="checkbox"/>

Dimensions

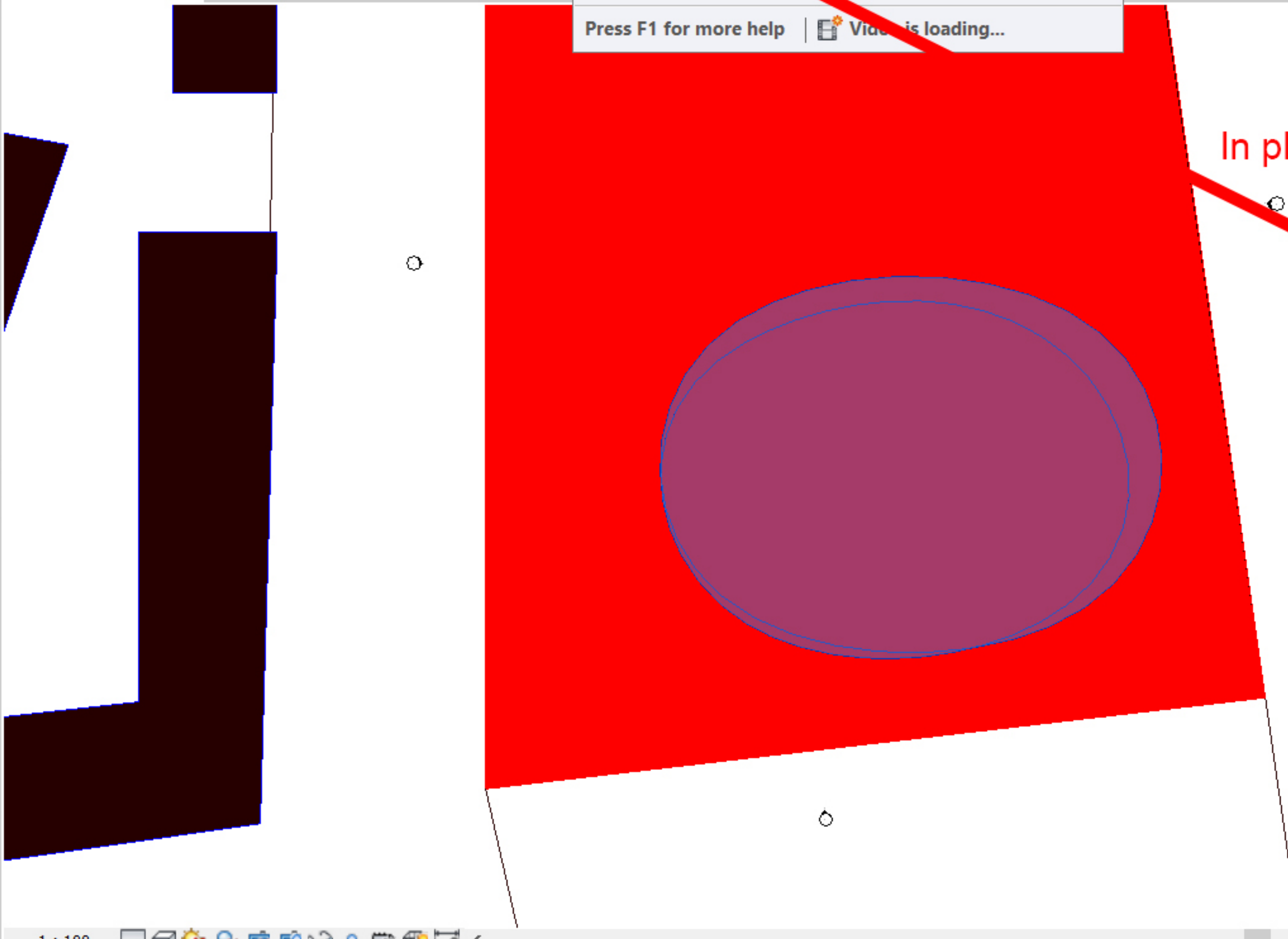
Mass Floors	Edit...
Gross Floor Ar...	
Gross Surface ...	5055.309 m ²
Gross Volume	20993.956 m ³

Identity Data

[Properties help](#) | Apply

Project Browser - Project3

- Views (all)
- Structural Plans
- Floor Plans
 - Level 1**
 - Level 2
 - Level 3
 - Level 4
 - Site
- Ceiling Plans
- Elevations (Building Elevation)
 - East
 - North
 - South
 - West
- Legends
- Schedules/Quantities (all)



Activate Windows
Go to Settings to activate Windows.

Modify | Mass ribbon with various tool icons including Cope, Cut, Join, Geometry, Modify, View, Measure, Create, Model, and Mass Floors.

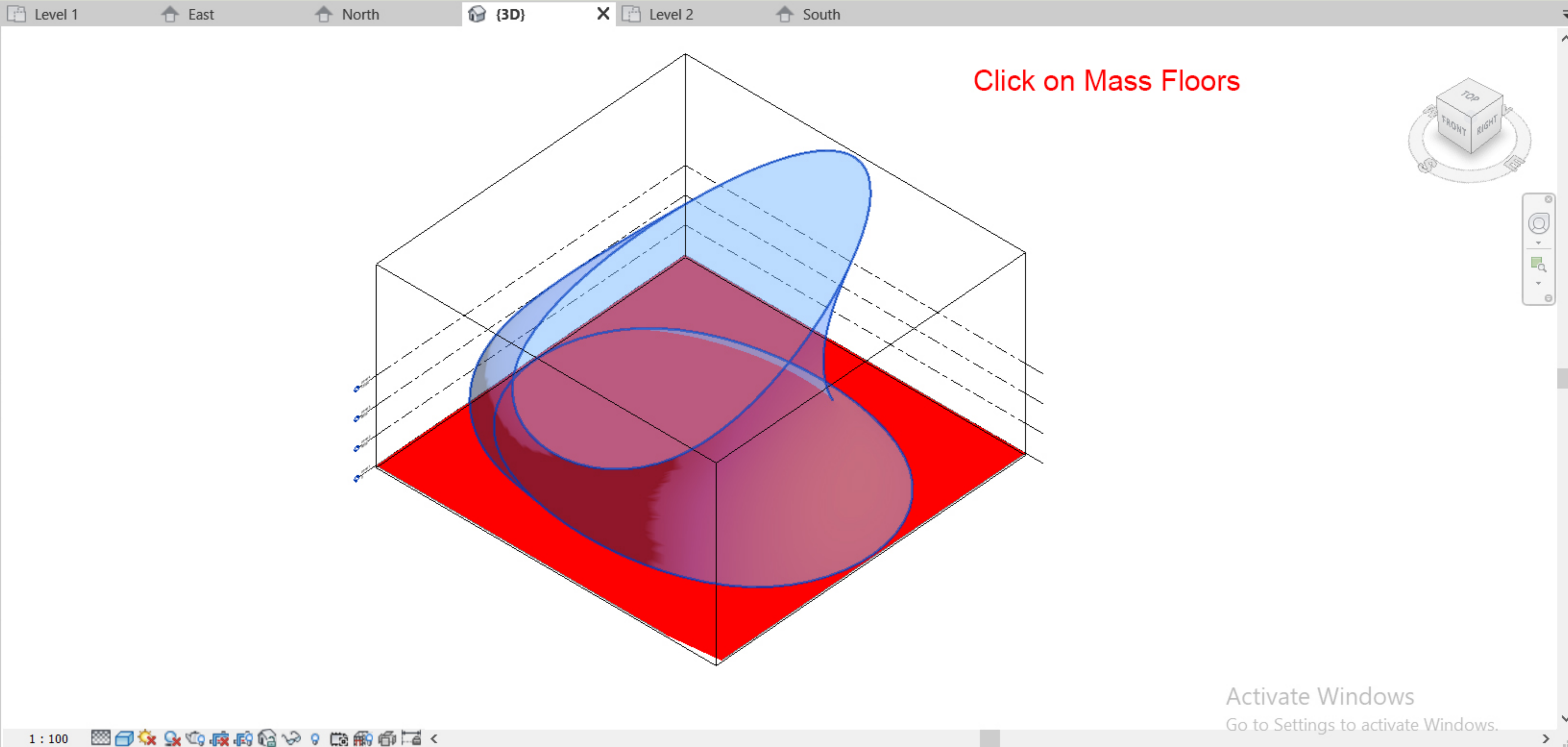
Mass Floors
Creates a mass floor at each level defined for a mass.
Press F1 for more help

Properties panel for Mass (1) showing constraints, dimensions, and identity data.

Constraints	
Elevation	0.0
Moves With N...	<input type="checkbox"/>
Dimensions	
Mass Floors	Edit...
Gross Floor Ar...	
Gross Surface ...	5055.309 m ²
Gross Volume	20993.956 m ³
Identity Data	

Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West



Activate Windows
Go to Settings to activate Windows.

File Architecture Structure Steel Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Modify | Mass

Select Properties Clipboard Geometry Modify View Measure Create Model Model

Properties

Mass (1) Edit Type

Constraints

Elevation 0.0

Moves With N...

Dimensions

Mass Floors Edit...

Gross Floor Ar...

Gross Surface ... 5055.309 m²

Gross Volume 20993.956 m³

Identity Data

Properties help Apply

Project Browser - Project3

Views (all)

- Structural Plans
- Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
- Ceiling Plans
- 3D Views
 - {3D}
- Elevations (Building Elevation)
 - East
 - North
 - South
 - West

Level 1 East North {3D} Level 2 South

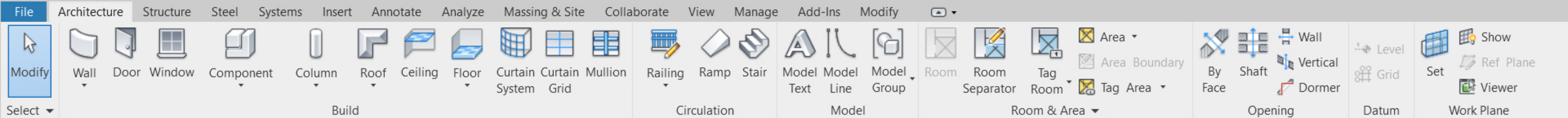
Mass Floors

- Level 1
- Level 2
- Level 3
- Level 4

OK Cancel Help

Select all floors where you want a slab to be

Activate Windows
Go to Settings to activate Windows.



Properties

3D View

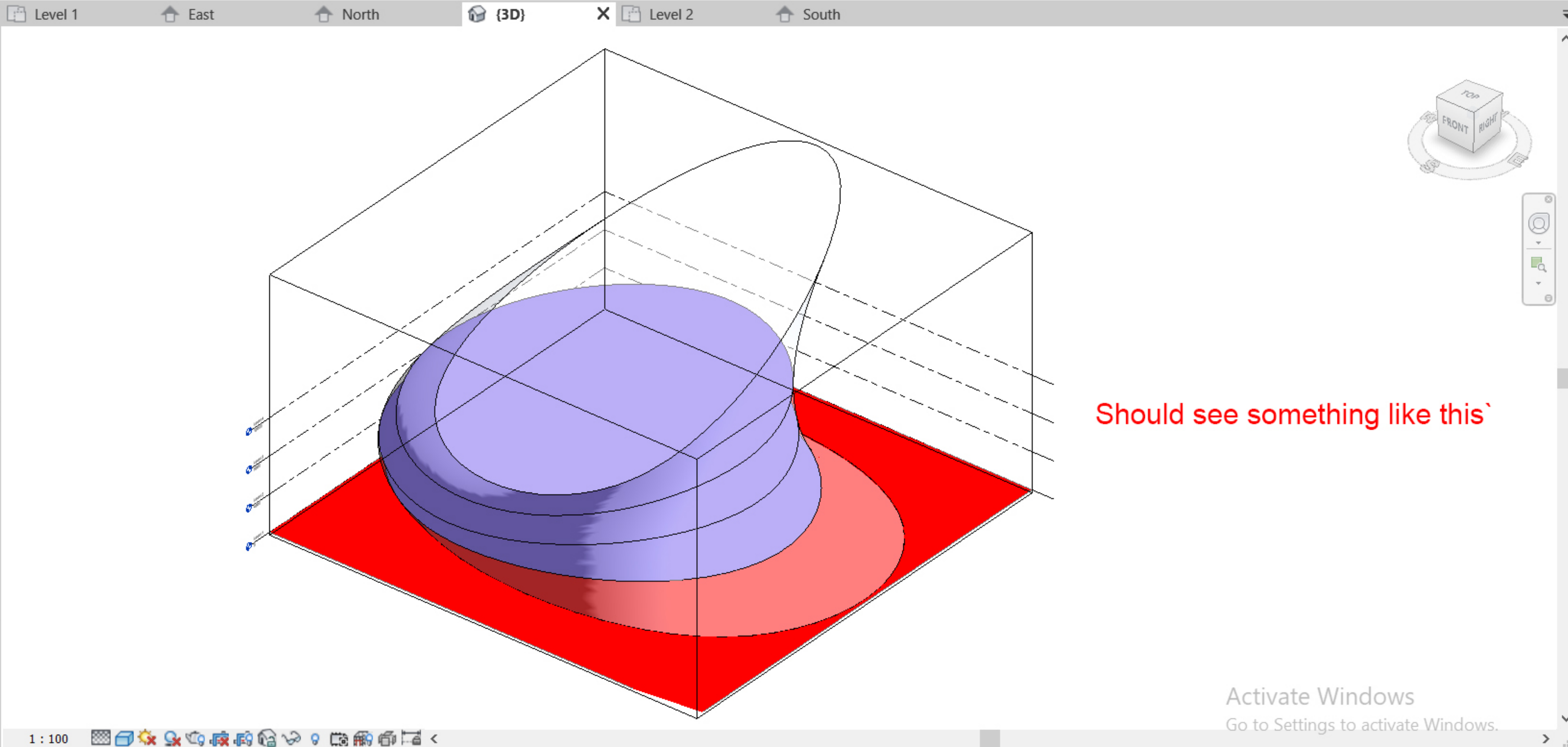
3D View: {3D} Edit Type

View Scale	1 : 100
Scale Value	1 : 100
Detail Level	Fine
Parts Visibility	Show Original
Visibility/Grap...	Edit...
Graphic Displa...	Edit...
Discipline	Coordination
Show Hidden ...	By Discipline

Properties help Apply

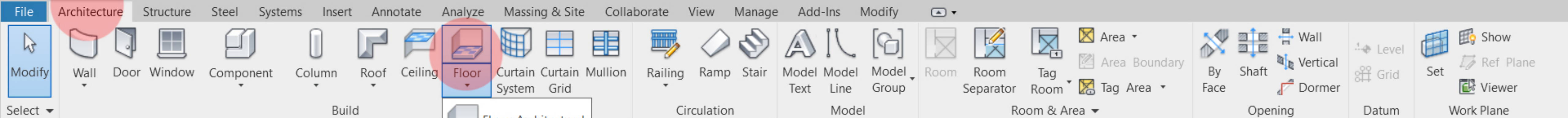
Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}**
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West



Should see something like this'

Activate Windows
Go to Settings to activate Windows.



Properties panel for 3D View:

- 3D View: {3D}
- View Scale: 1 : 100
- Scale Value: 1 : 100
- Detail Level: Fine
- Parts Visibility: Show Original
- Visibility/Grp...: Edit...
- Graphic Displa...: Edit...
- Discipline: Coordination
- Show Hidden ...: By Discipline

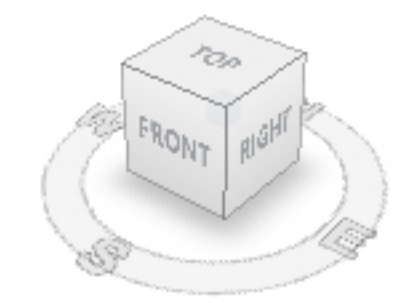
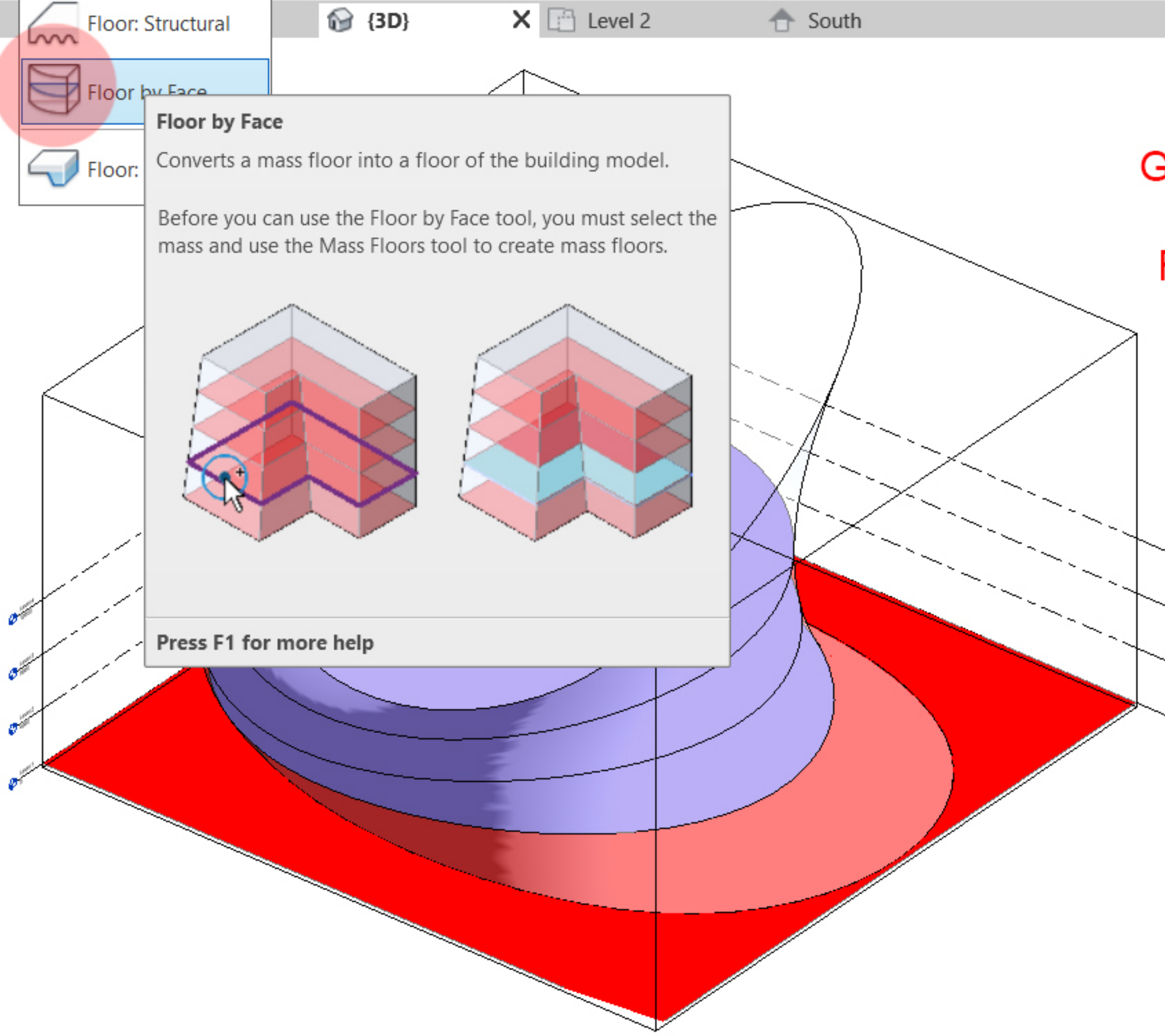
Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West

Floor by Face
 Converts a mass floor into a floor of the building model.
 Before you can use the Floor by Face tool, you must select the mass and use the Mass Floors tool to create mass floors.
 Press F1 for more help

The diagram shows two 3D models of a building. The left model shows a mass floor (a red block) being selected with a mouse cursor. The right model shows the same building with a floor of the building model (a red block) created from the mass floor.

Go to Architecture tab >
 Floor tool >
 Floor by Face subtool



Activate Windows
 Go to Settings to activate Windows.

Modify Select Properties Clipboard Geometry Modify View Measure Create Multiple Selection

Clipboard: Paste, Copy, Cut, Join

Geometry: Cope, Extrude, Revolve, Sweep, Loft, Mirror, Rotate, Offset

Modify: Move, Copy, Paste, Delete, Undo, Redo, Lock, Hide, Show, Hide All, Show All

View: Hide, Show, Hide All, Show All, Hide Unselected, Show Unselected, Hide Unselected, Show Unselected

Measure: Measure, Measure Length, Measure Area, Measure Volume

Create: Create Floor, Create Room, Create Massing

Multiple Selection: Select Multiple, Clear Selection, Create Floor

Modify | Place Floor by Face Offset: 0.0

Properties

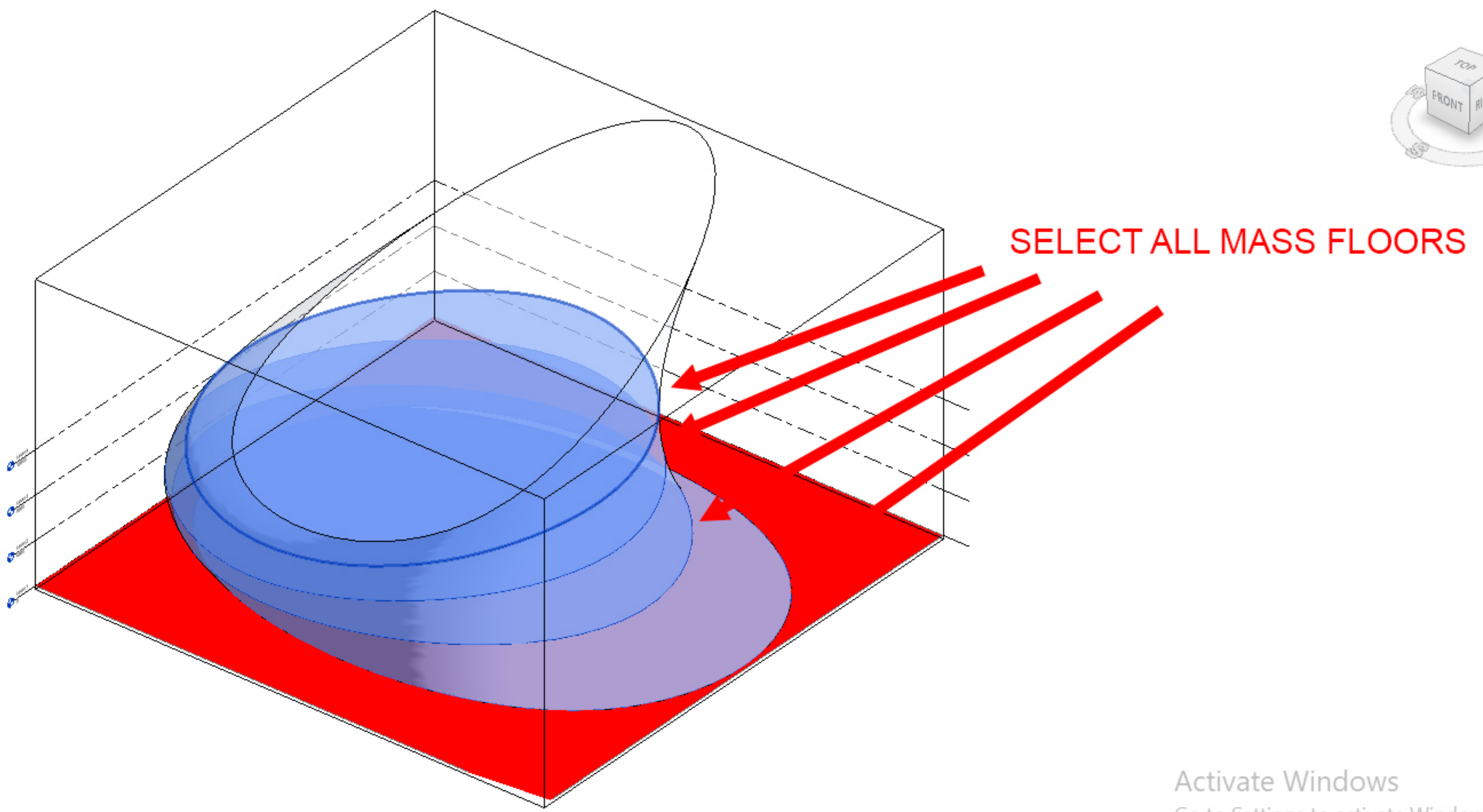
Floor Generic 150mm

Floors Edit Type

Apply

Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West



Activate Windows Go to Settings to activate Windows.



Create Floor
Creates elements from the selected mass faces.
Press F1 for more help

Offset: 0.0

Level 1 East North {3D} Level 2 South

Properties

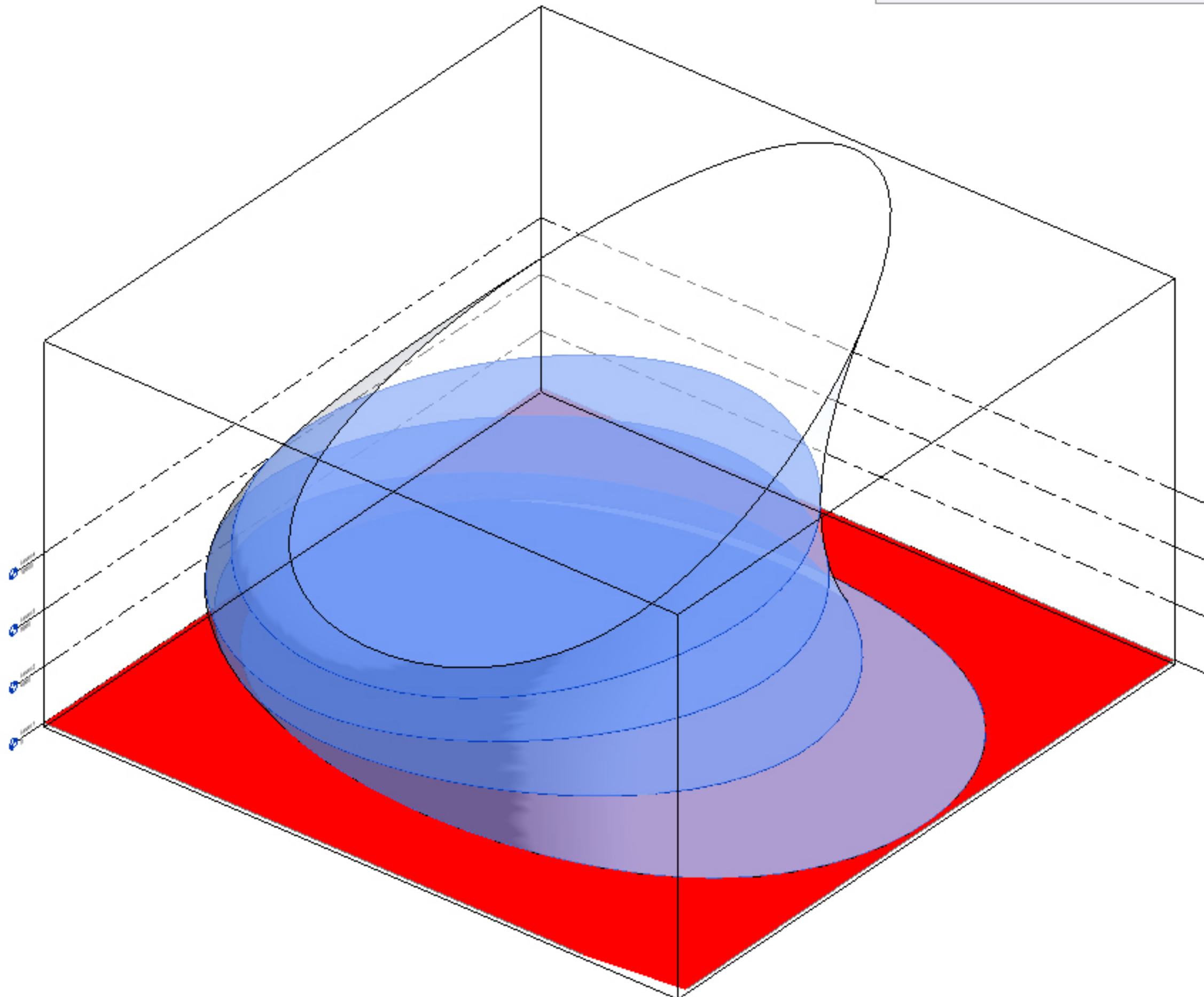
Floor
Generic 300mm

Floors Edit Type

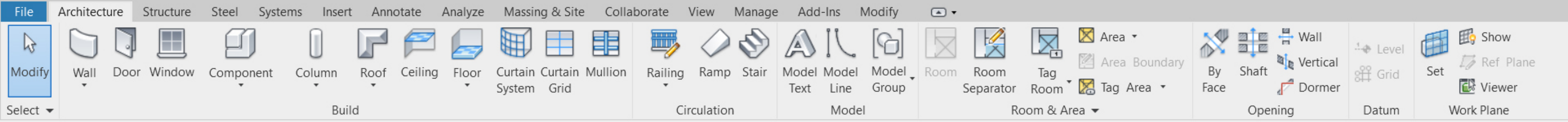
Apply

Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West



Activate Windows
Go to Settings to activate Windows.



Properties

3D View

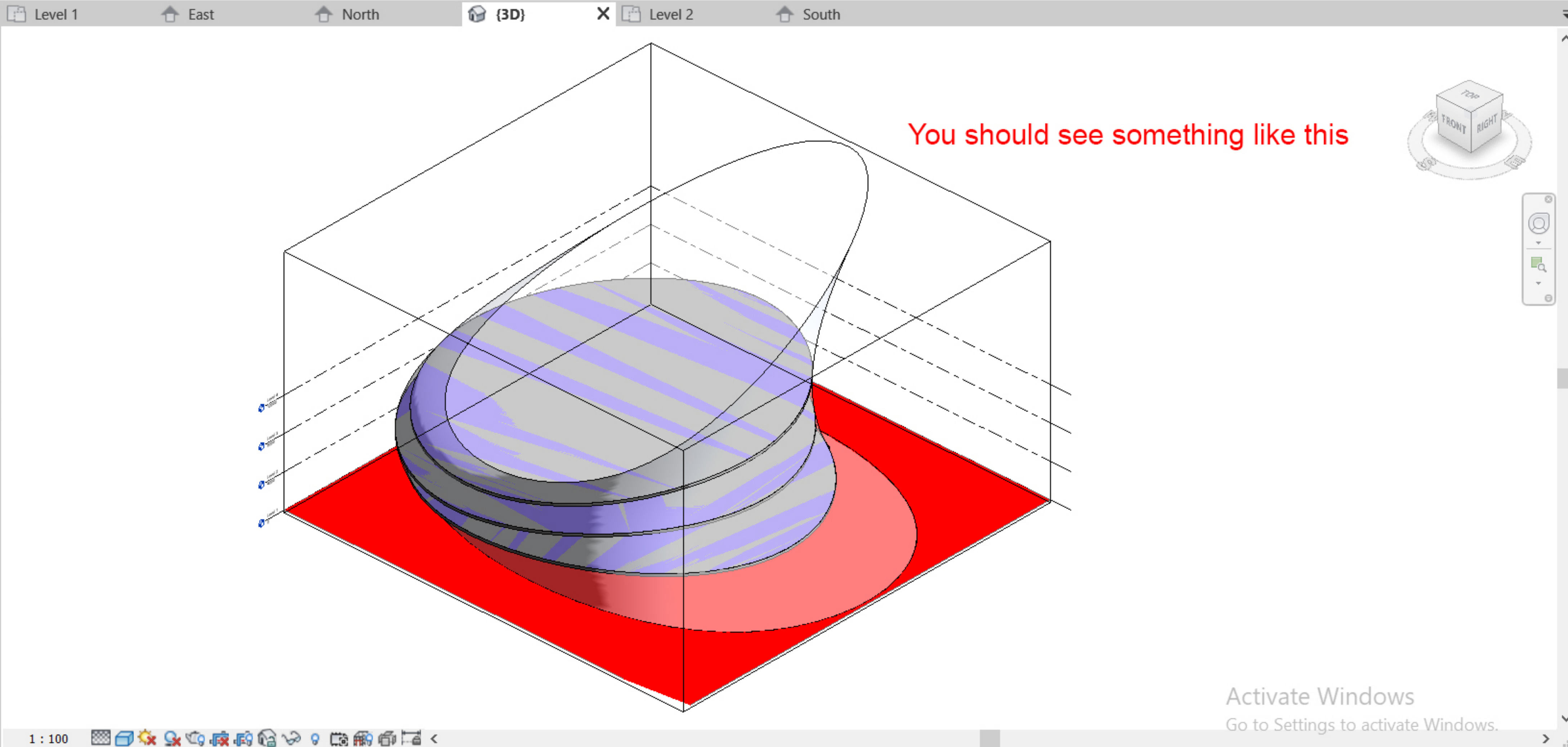
3D View: {3D} Edit Type

Scale Value	1: 100
Detail Level	Fine
Parts Visibility	Show Original
Visibility/Grp...	Edit...
Graphic Displa...	Edit...
Discipline	Coordination
Show Hidden ...	By Discipline
Default Analys...	None
Sun Path	<input type="checkbox"/>

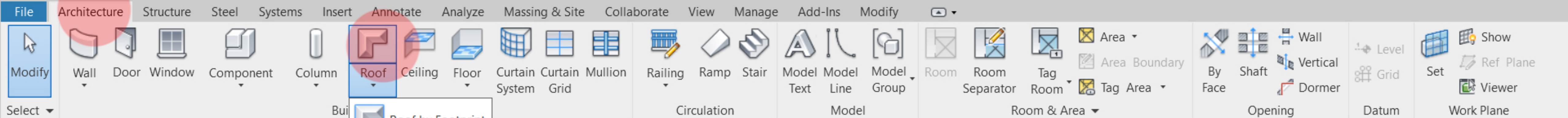
Properties help Apply

Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West



Activate Windows
Go to Settings to activate Windows.



Properties

Level 1

3D View

3D View: {3D} Edit Type

Scale Value	1: 100
Detail Level	Fine
Parts Visibility	Show Original
Visibility/Grp...	Edit...
Graphic Displa...	Edit...
Discipline	Coordination
Show Hidden ...	By Discipline
Default Analys...	None
Sun Path	<input type="checkbox"/>

Properties help Apply

Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West

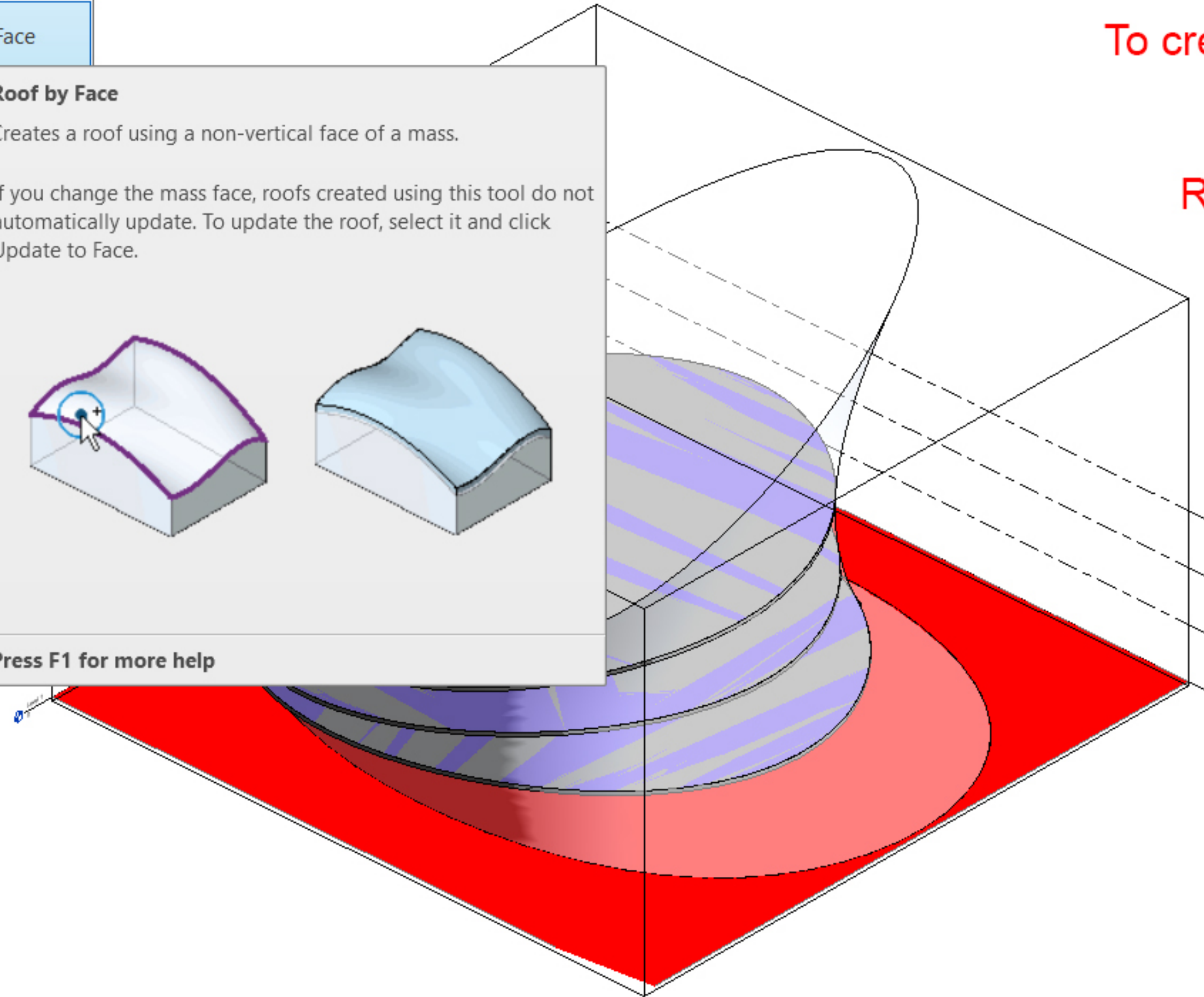
Roof by Face

Creates a roof using a non-vertical face of a mass.

If you change the mass face, roofs created using this tool do not automatically update. To update the roof, select it and click Update to Face.

Press F1 for more help

To create the roof plate, go to
 Architecture tab,
 Roof tool,
 Roof by Face subtool



Activate Windows
 Go to Settings to activate Windows.

Modify Select Properties Clipboard Geometry Modify View Measure Create Multiple Selection

Cope Cut Join

Select Multiple Clear Selection Create Roof

Modify | Place Roof by Face Level: Level 4 Offset: 0.0

Properties

Basic Roof Generic - 400mm

New Roofs Edit Type

Picked Faces L...	Faces at Top of ...
Level Offset	0.0
Room Boundi...	<input checked="" type="checkbox"/>
Related to Mass	<input type="checkbox"/>

Construction

Fascia Depth	0.0
Rafter Cut	Plumb Cut

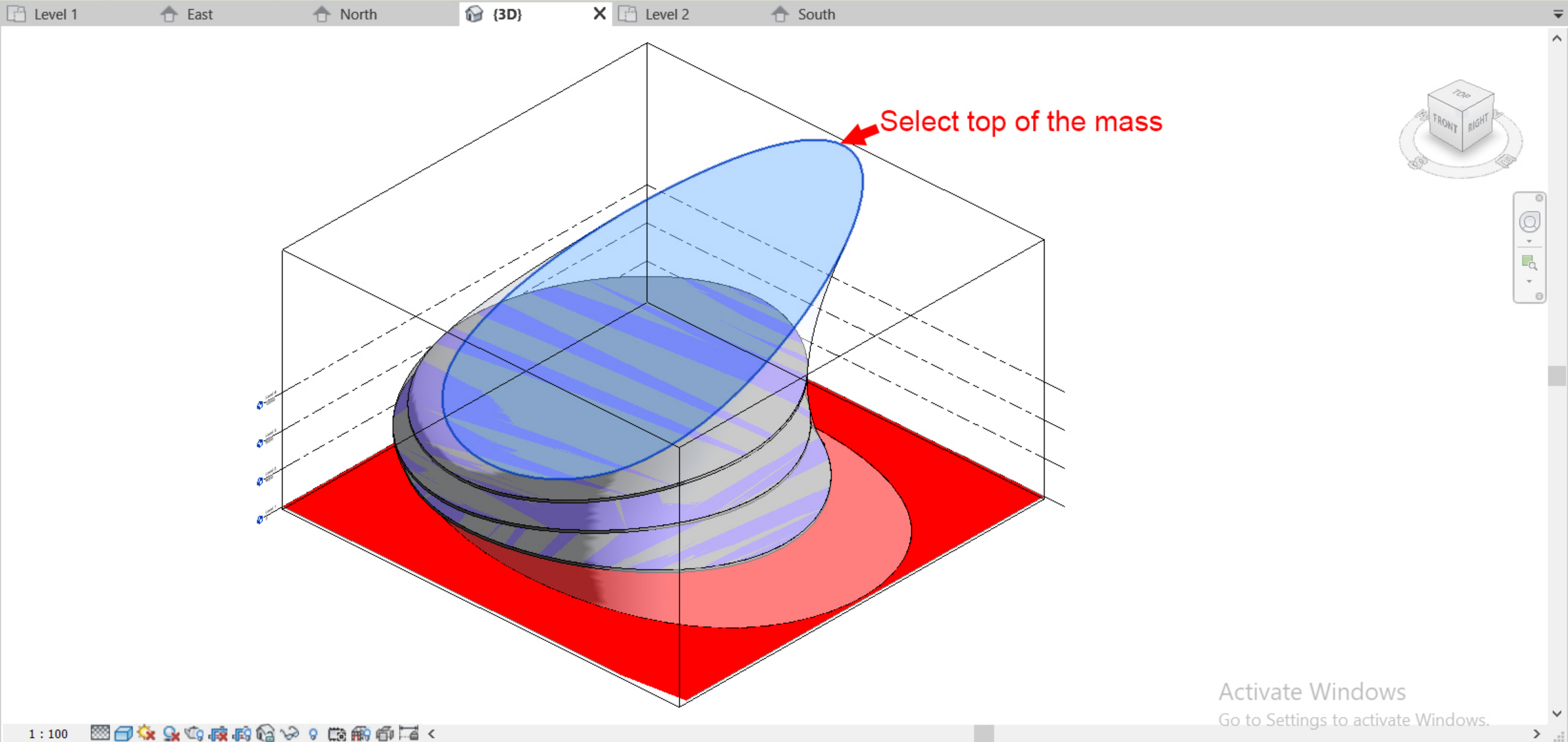
Dimensions

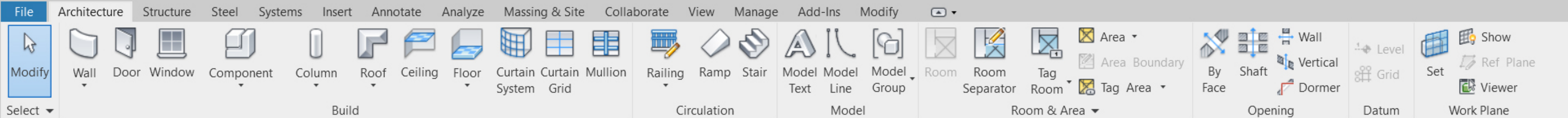
Identity Data

Properties help Apply

Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West





Properties

3D View

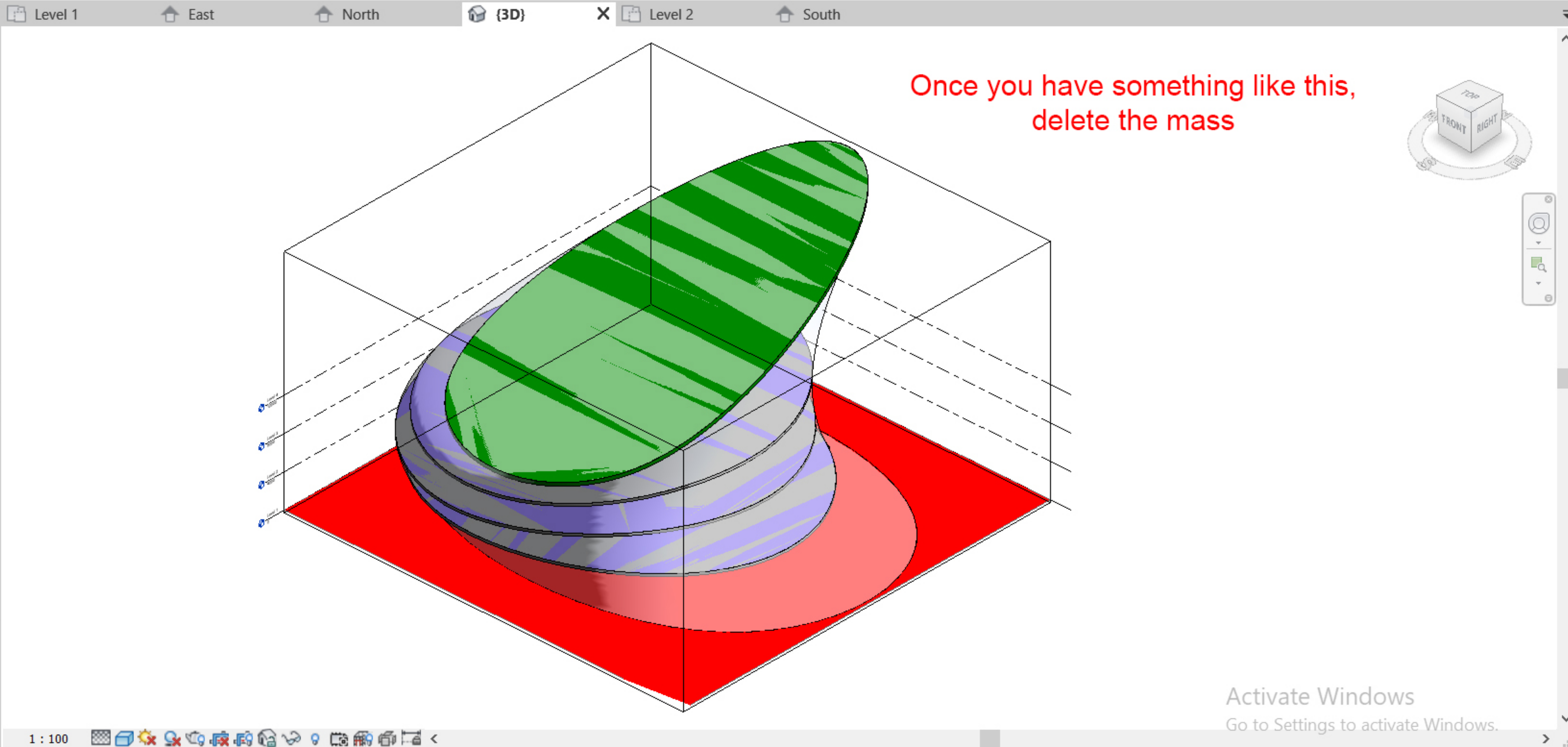
3D View: {3D} Edit Type

Scale Value	1: 100
Detail Level	Fine
Parts Visibility	Show Original
Visibility/Grp...	Edit...
Graphic Displa...	Edit...
Discipline	Coordination
Show Hidden ...	By Discipline
Default Analys...	None
Sun Path	<input type="checkbox"/>

Properties help Apply

Project Browser - Project3

- Views (all)
- Structural Plans
- Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
- Site
- Ceiling Plans
- 3D Views
 - {3D}
- Elevations (Building Elevation)
 - East
 - North
 - South
 - West



File Architecture Structure Steel Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Modify

Modify Select

Wall Door Window Component Column Roof Ceiling Floor Curtain System Mullion Railing Ramp Stair Model Text Model Line Model Group Room Room Separator Tag Room Area Area Boundary Tag Area

By Face Shaft Wall Vertical Dormer Level Grid Datum Show Set Ref Plane Viewer Work Plane

Properties

3D View

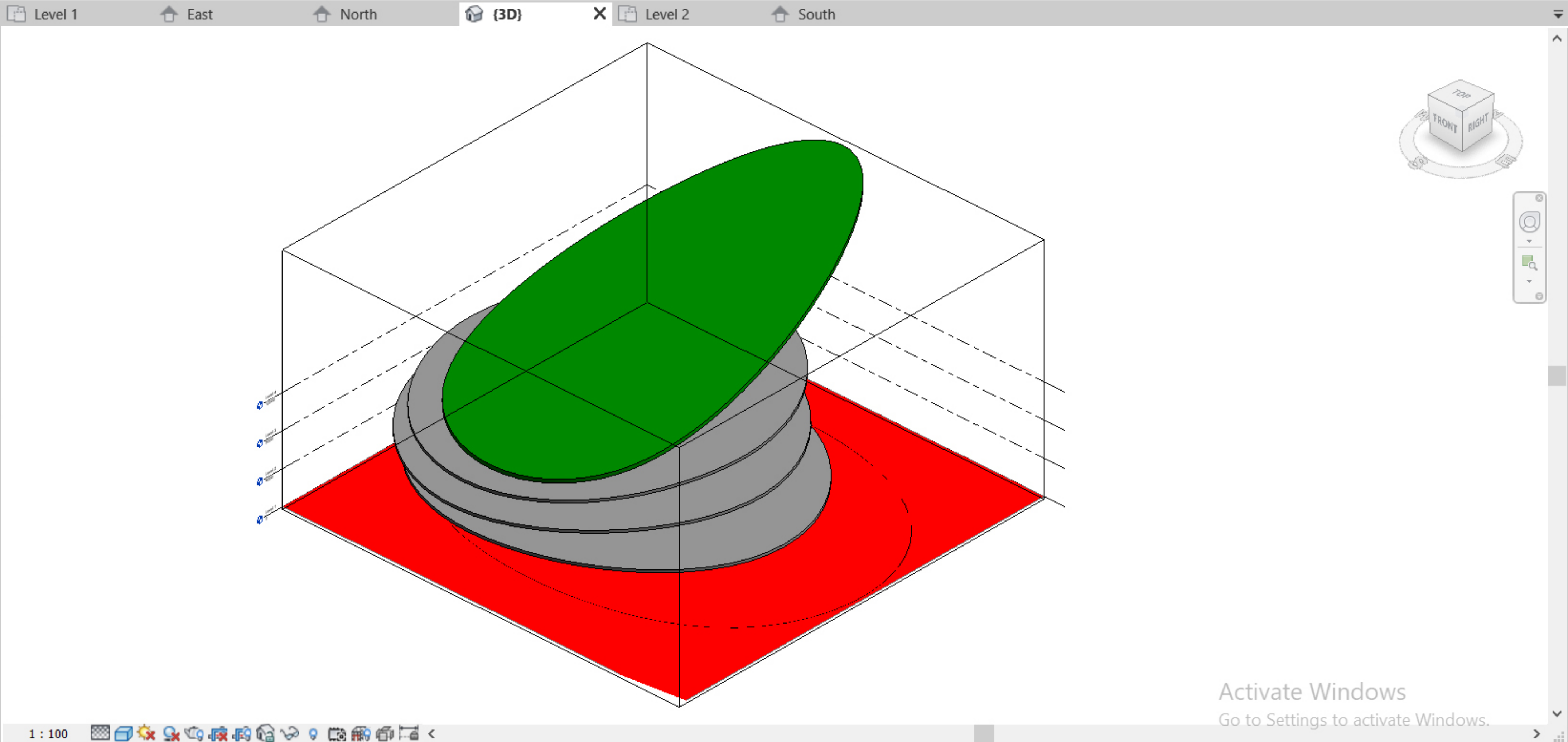
3D View: {3D} Edit Type

Scale Value	1: 100
Detail Level	Fine
Parts Visibility	Show Original
Visibility/Grp...	Edit...
Graphic Displa...	Edit...
Discipline	Coordination
Show Hidden ...	By Discipline
Default Analys...	None
Sun Path	<input type="checkbox"/>

Properties help Apply

Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West



Activate Windows
Go to Settings to activate Windows.

Modify Select

Link Revit Link IFC Link CAD DWF Markup Decal Point Cloud Coordination Model Manage Links **Import CAD** Import Import Insert Image Manage Load Load as

Import CAD

Imports data or 3D geometry from other CAD programs to a Revit project or family.

You can import data stored in the following formats: 3DM, DGN, DWG, DXF, SAT, and SKP.

Press F1 for more help

Properties

Level 1 East

3D View

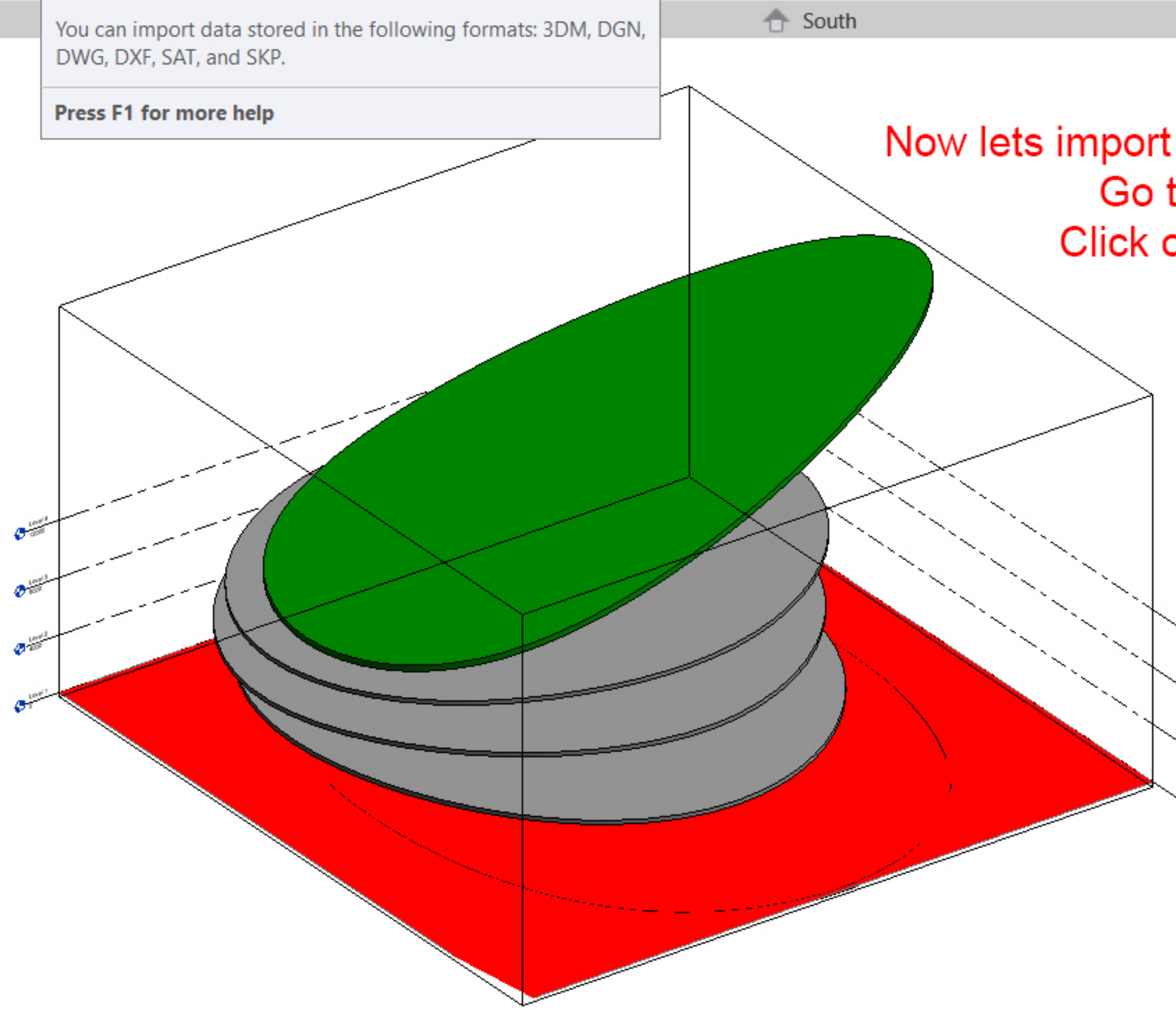
3D View: {3D} Edit Type

Scale Value	1: 100
Detail Level	Fine
Parts Visibility	Show Original
Visibility/Grp...	Edit...
Graphic Displa...	Edit...
Discipline	Coordination
Show Hidden ...	By Discipline
Default Analys...	None
Sun Path	<input type="checkbox"/>

Properties help Apply

Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}**
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West



Now lets import all facade components.
Go to Insert tab,
Click on Import CAD



Activate Windows
Go to Settings to activate Windows.

Modify Select

Link Revit Link IFC Link CAD DWF Markup

Decal Link Point Cloud Coordination Model Manage Links

Import CAD Import gbXML Insert from File Image Manage Images Load Family Load as Group

Import Load from Library

Properties

3D View

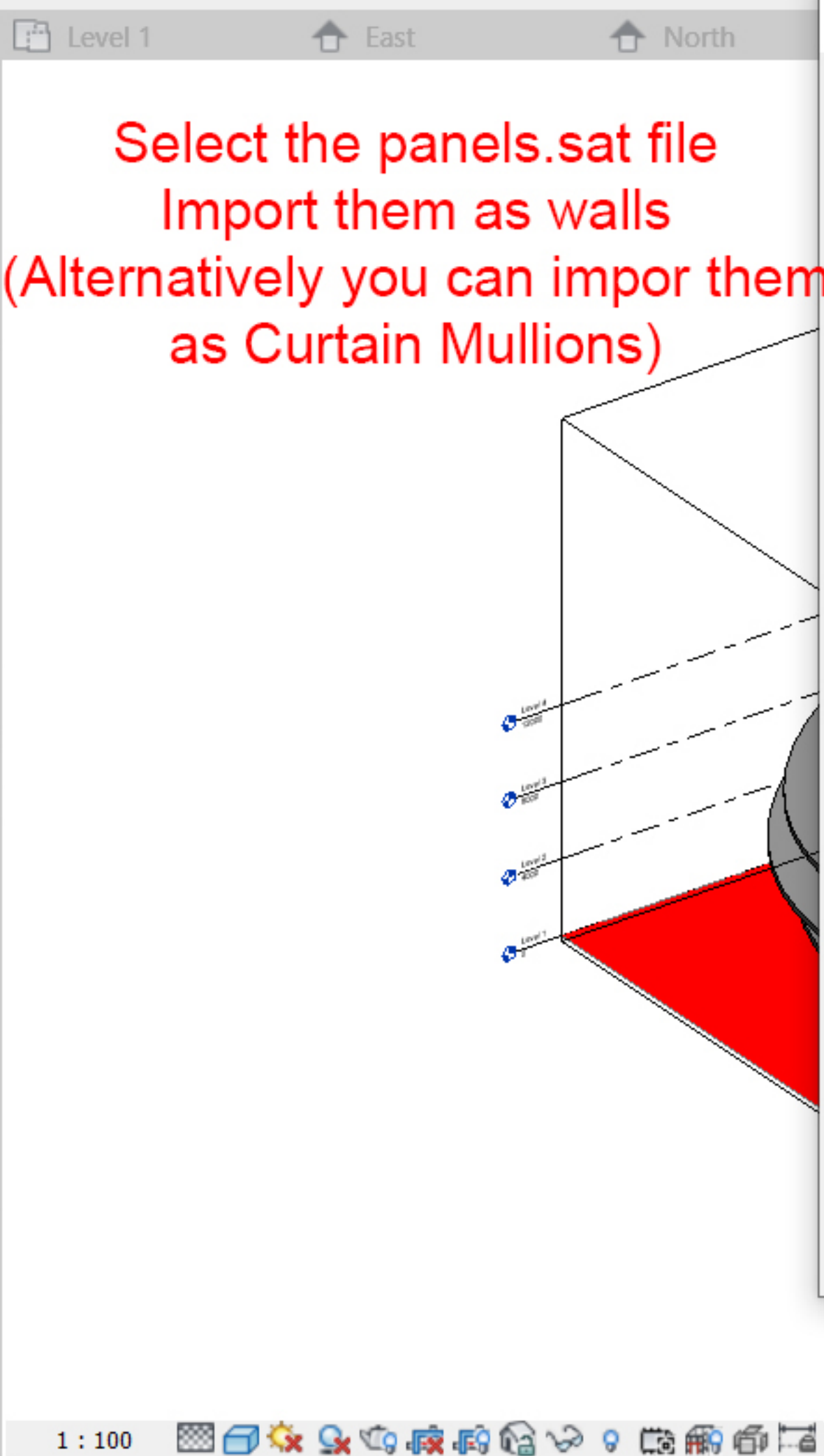
3D View: {3D} Edit Type

Scale Value	1: 100
Detail Level	Fine
Parts Visibility	Show Original
Visibility/Grap...	Edit...
Graphic Displa...	Edit...
Discipline	Coordination
Show Hidden ...	By Discipline
Default Analys...	None
Sun Path	<input type="checkbox"/>

Properties help Apply

Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}**
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West



Import CAD Formats

Look in: Exports

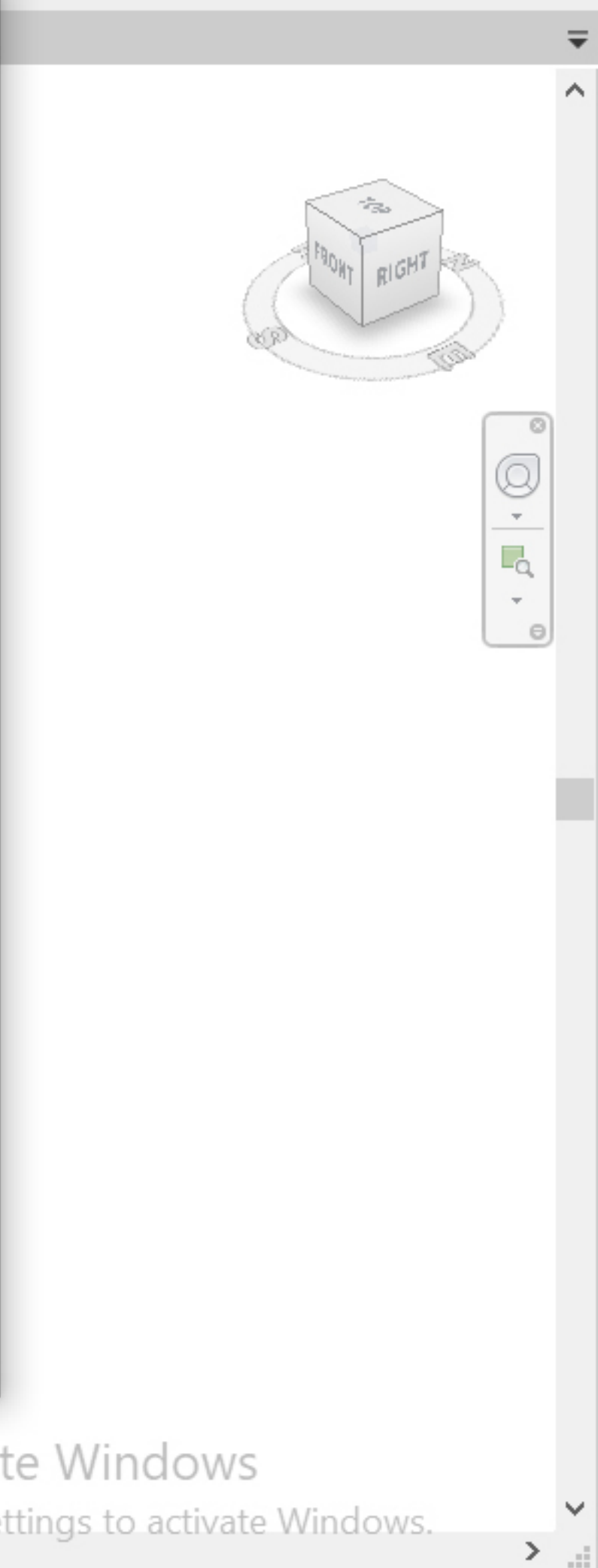
Name	Date modified	Typ
frame.sat	2019-10-30 14:24	Star
glass.sat	2019-10-30 14:24	Star
panels.sat	2019-10-30 14:24	Star
volume.sat	2019-10-30 14:23	Star

File name: panels.sat

Files of type: ACIS SAT Files (*.sat)

Import as Category: Walls

Tools How can 3D shapes be used? Open Cancel



Modify Select

Link Revit Link IFC Link CAD DWF Markup Decal Link Point Cloud Coordination Model Manage Links Import CAD Import gbXML Insert from File Import Image Manage Images Load Family Load as Group Load from Library

3D View

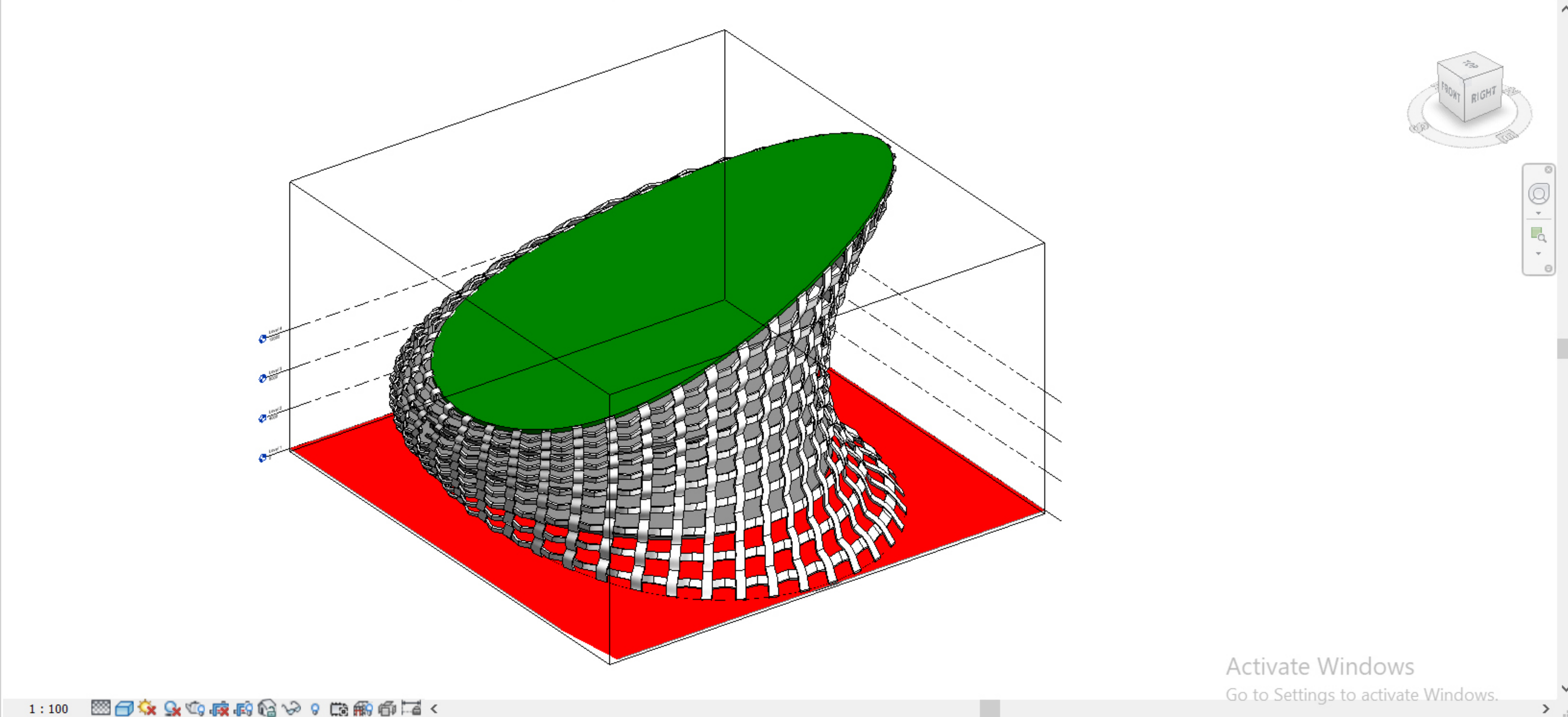
3D View: {3D} Edit Type

Scale Value	1: 100
Detail Level	Fine
Parts Visibility	Show Original
Visibility/Grp...	Edit...
Graphic Displa...	Edit...
Discipline	Coordination
Show Hidden ...	By Discipline
Default Analys...	None
Sun Path	<input type="checkbox"/>

Properties help Apply

Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West



Activate Windows
Go to Settings to activate Windows.

Modify Select

Link Revit Link IFC Link CAD DWF Markup Decal Point Cloud Coordination Model Manage Links Import CAD Import gbXML Insert from File Image Manage Images Load Family

Link Import

Properties

3D View

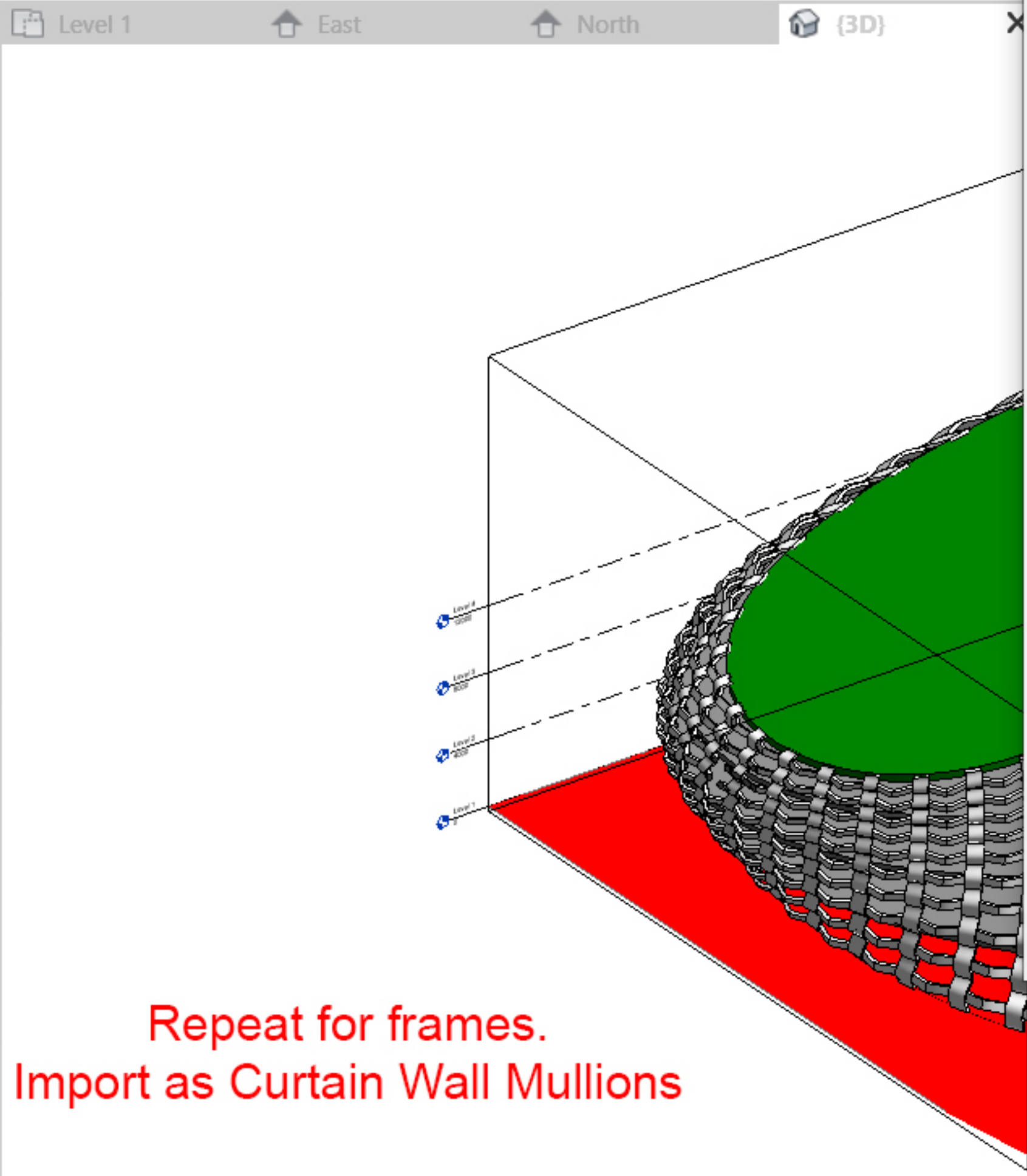
3D View: {3D} Edit Type

Scale Value	1: 100
Detail Level	Fine
Parts Visibility	Show Original
Visibility/Grap...	Edit...
Graphic Displa...	Edit...
Discipline	Coordination
Show Hidden ...	By Discipline
Default Analys...	None
Sun Path	<input type="checkbox"/>

Properties help Apply

Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West



Import CAD Formats

Look in: Exports

Name	Date modified	Type
frame.sat	2019-10-30 14:24	Star
glass.sat	2019-10-30 14:24	Star
panels.sat	2019-10-30 14:24	Star
volume.sat	2019-10-30 14:23	Star

File name: frame.sat

Files of type: ACIS SAT Files (*.sat)

Import as Category: Curtain Wall Mullions

Tools How can 3D shapes be used? Open Cancel

Repeat for frames.
Import as Curtain Wall Mullions

Modify Select

Link Revit Link IFC Link CAD DWF Markup Decal Point Cloud Coordination Model Manage Links Import CAD Import gbXML Insert from File Image Manage Images Load Family

Link Import

Properties

3D View

3D View: {3D} Edit Type

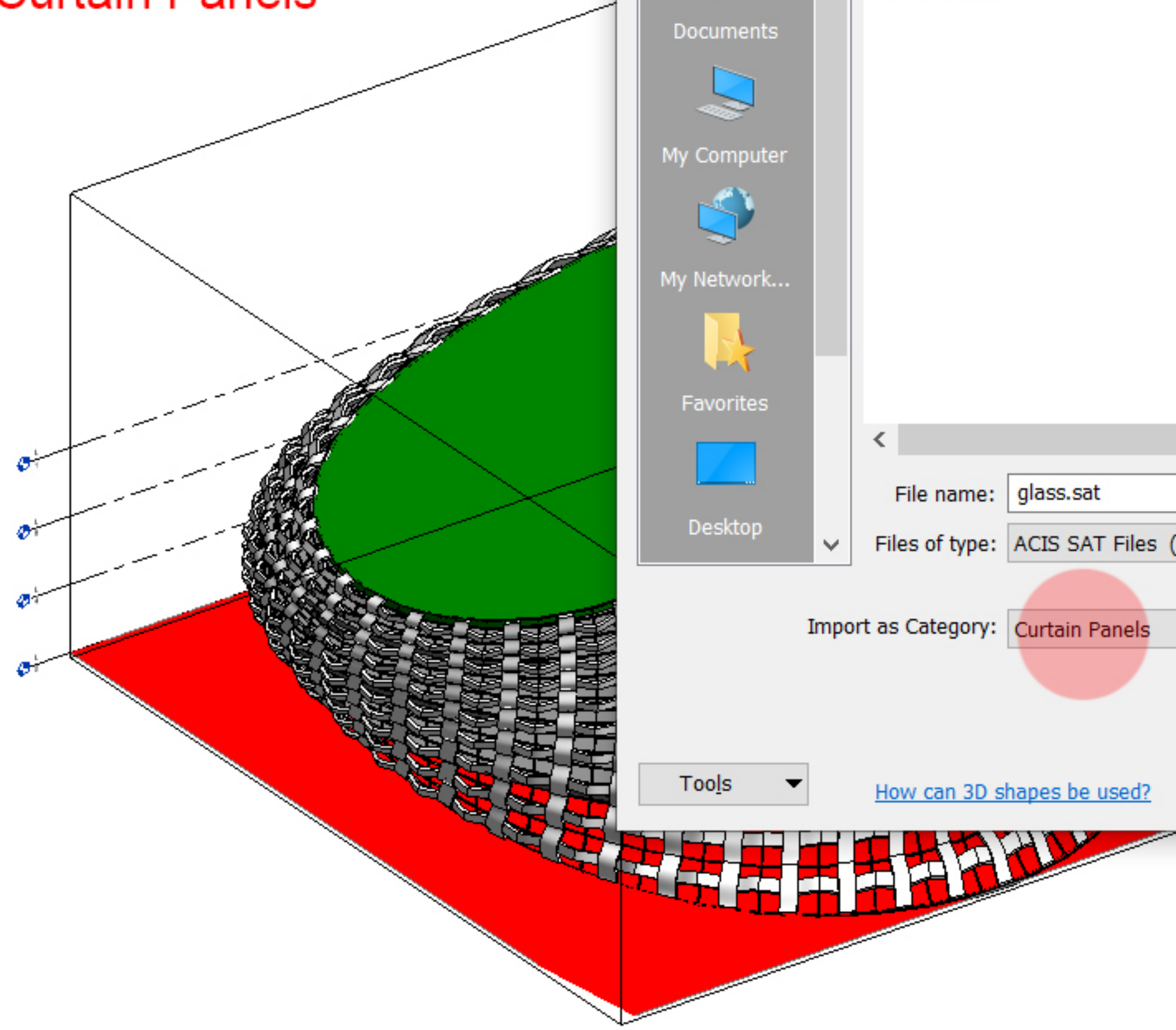
Scale Value	1: 100
Detail Level	Fine
Parts Visibility	Show Original
Visibility/Grap...	Edit...
Graphic Displa...	Edit...
Discipline	Coordination
Show Hidden ...	By Discipline
Default Analys...	None
Sun Path	<input type="checkbox"/>

Properties help Apply

Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West

Repeat for glass panels.
Import them as Curtain Panels



Import CAD Formats

Look in: Exports

Name	Date modified	Type
frame.sat	2019-10-30 14:24	Star
glass.sat	2019-10-30 14:24	Star
panels.sat	2019-10-30 14:24	Star
volume.sat	2019-10-30 14:23	Star

File name: glass.sat

Files of type: ACIS SAT Files (*.sat)

Import as Category: Curtain Panels

Open Cancel

Activate Windows
Go to Settings to activate Windows.

Modify Select

Link Revit Link IFC Link CAD DWF Markup Decal Link Point Cloud Coordination Model Manage Links Import CAD Import gbXML Insert from File Import Image Manage Images Load Family Load as Group Load from Library

3D View

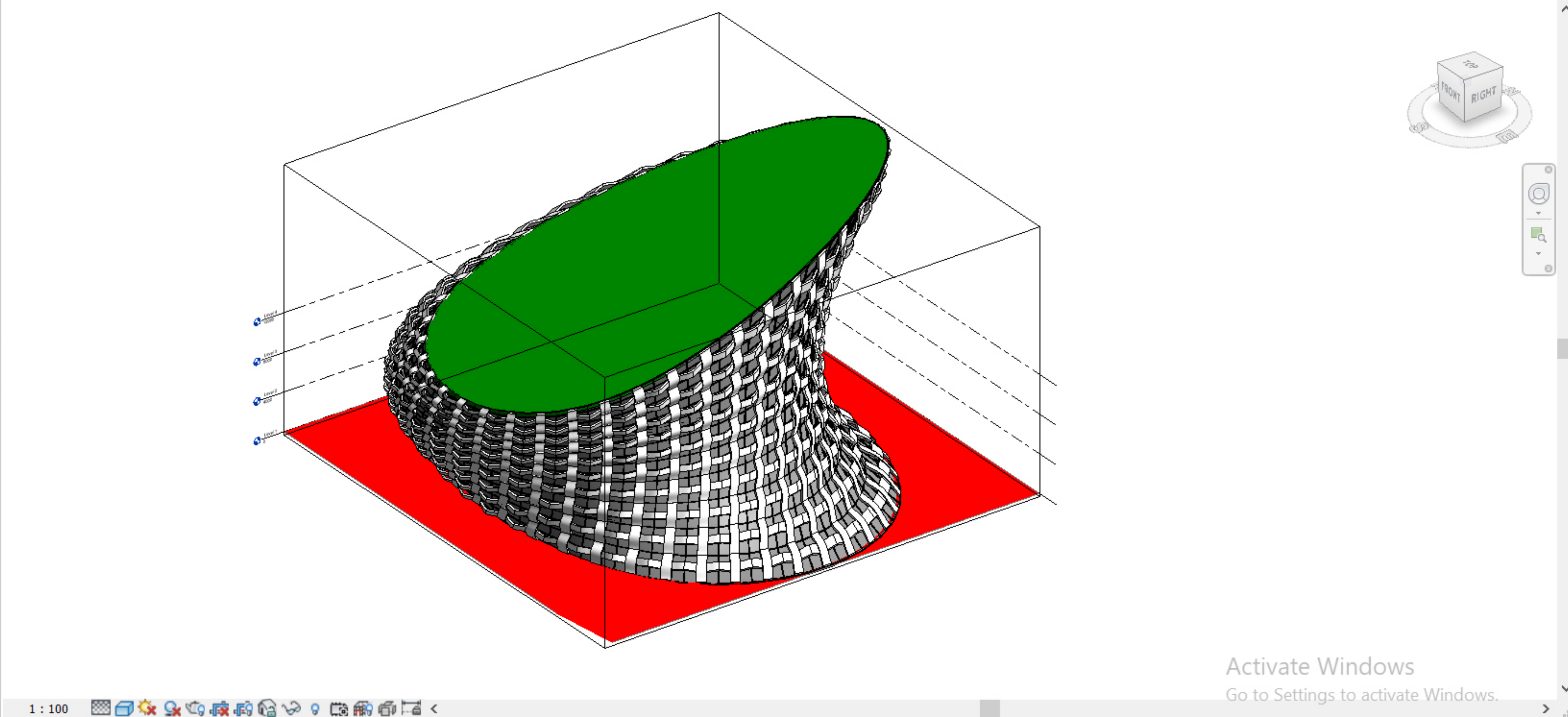
3D View: {3D} Edit Type

Scale Value	1: 100
Detail Level	Fine
Parts Visibility	Show Original
Visibility/Grp...	Edit...
Graphic Displa...	Edit...
Discipline	Coordination
Show Hidden ...	By Discipline
Default Analys...	None
Sun Path	<input type="checkbox"/>

Properties help Apply

Project Browser - Project3

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}
 - Elevations (Building Elevation)
 - East
 - North
 - South
 - West



Activate Windows
Go to Settings to activate Windows.

Modify Select

Link Revit Link IFC Link CAD DWF Markup Decal Link Point Cloud Coordination Model Manage Links Import CAD Import gbXML Insert from File Import Image Manage Images Load Family Load as Group Load from Library

3D View

3D View: {3D} Edit Type

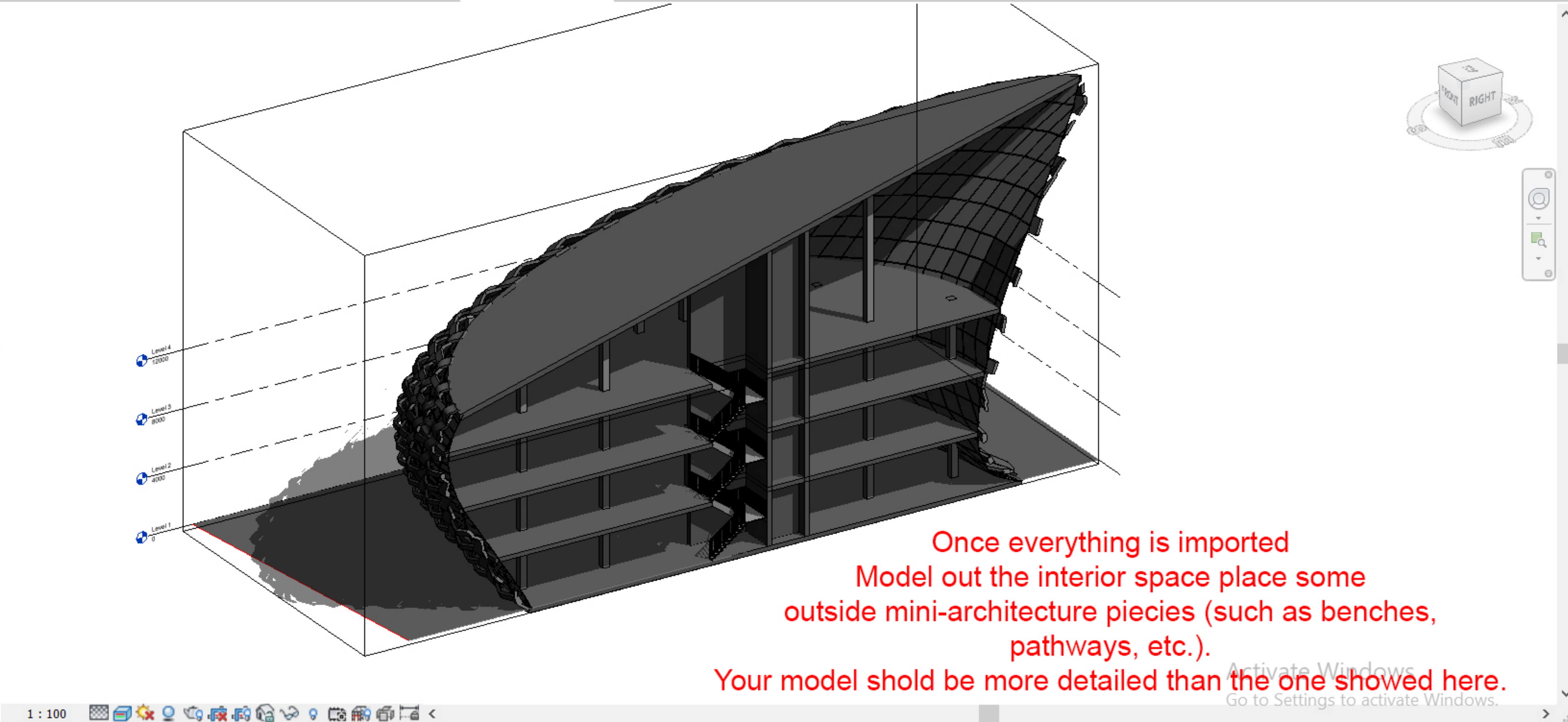
Graphics

View Scale	1 : 100
Scale Value	1 : 100
Detail Level	Fine
Parts Visibility	Show Original
Visibility/Grp...	Edit...
Graphic Displ...	Edit...
Discipline	Coordination
Show Hidden ...	By Discipline

Properties help Apply

Project Browser - AADA20_wip.rvt

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - Ceiling Plans
 - 3D Views
 - {3D}
 - Elevations (Building Elevatio
 - East
 - North
 - South
 - West



Once everything is imported
 Model out the interior space place some
 outside mini-architecture pieces (such as benches,
 pathways, etc.).

Your model should be more detailed than the one showed here.

File Architecture **Structure** Steel Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Modify

Modify View Templates Graphics Show Hidden Lines Remove Hidden Lines Cut Profile Render Render in Cloud Render Gallery 3D View Section Callout Plan Views Elevation Drafting View Duplicate View Legends Schedules Scope Box Sheet Title Block View Revisions Guide Grid Switch Windows Close Inactive Views Tile Views User Interface

Properties Section Building Section

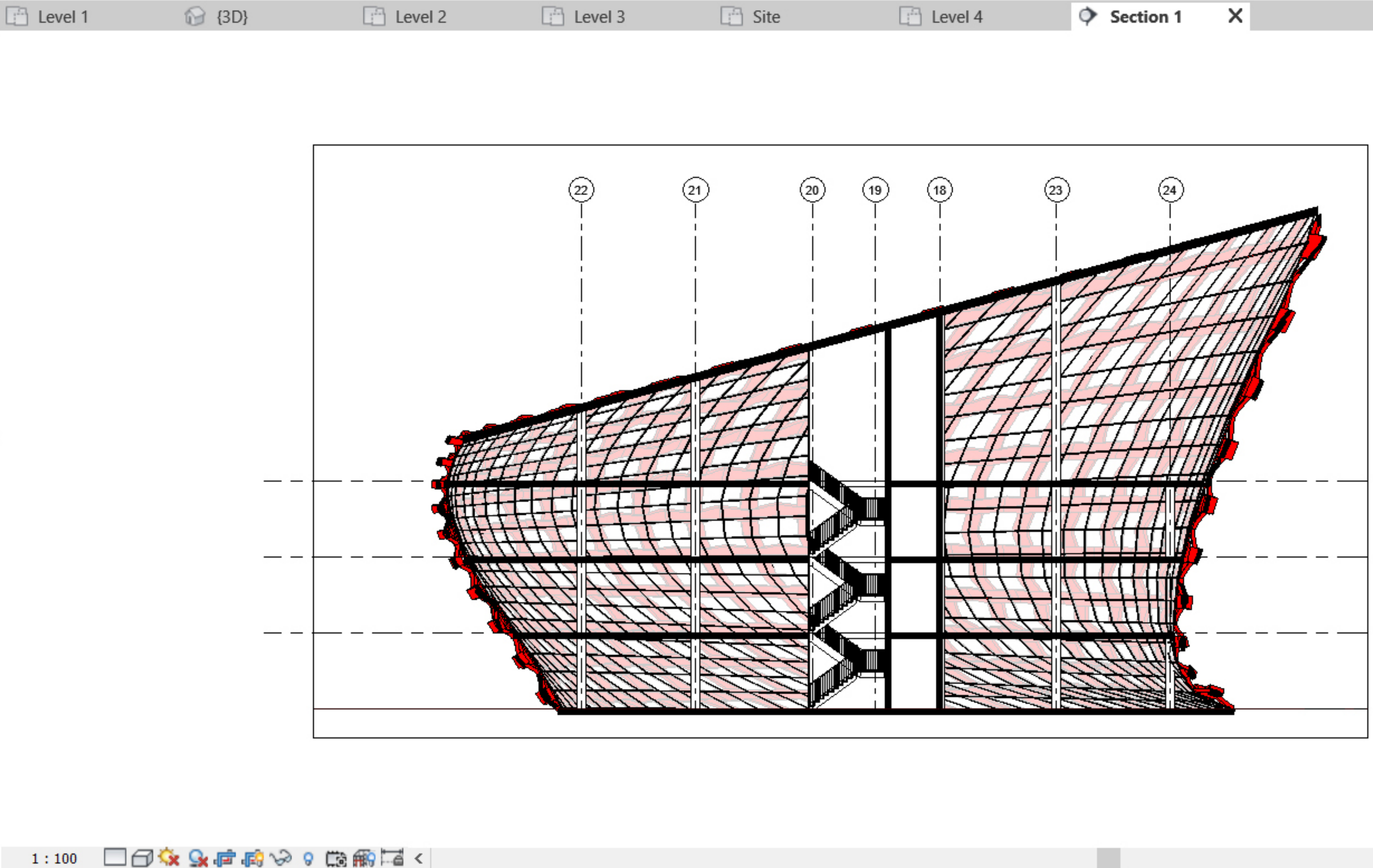
Section: Section 1 Edit Type

Graphics

View Scale	1 : 100
Scale Value	1 : 100
Display Model	Normal
Detail Level	Coarse
Parts Visibility	Show Original
Visibility/Grp...	Edit...
Graphic Displ...	Edit...
Hide at scales ...	1 : 100

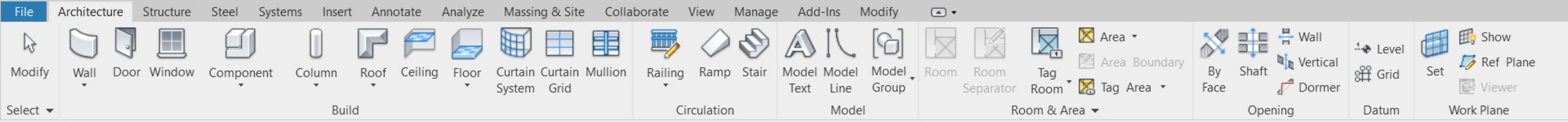
Project Browser - AADA20_wip.rvt

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - 3D Views
 - Sections (Building Section)
 - Section 1**
 - Legends
 - Schedules/Quantities (all)
 - Sheets (all)
 - Families
 - Groups

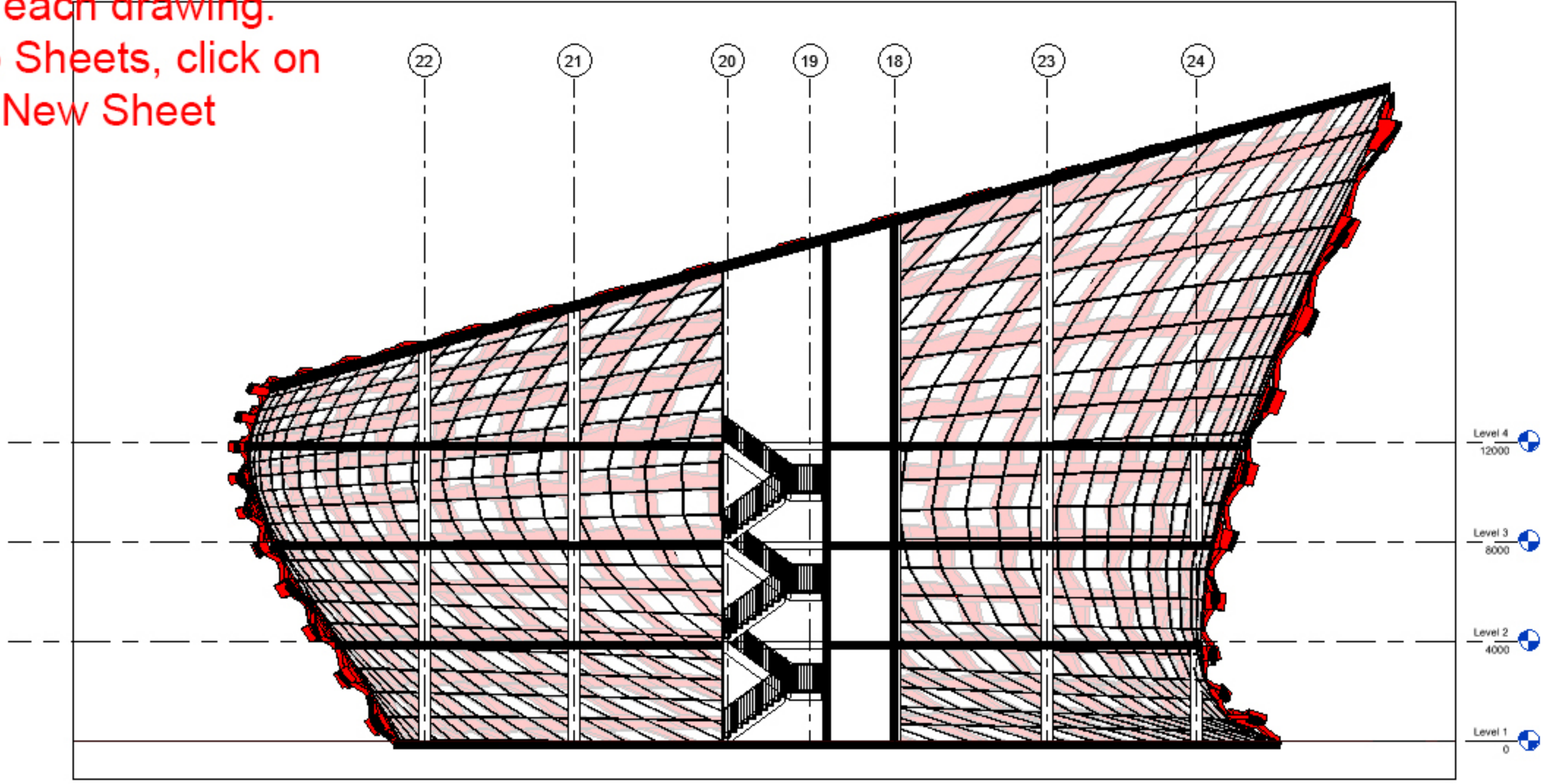


Create all necessary views, Adjust their style via Visibility/-Graphics settings

Activate Windows
Go to Settings to activate Windows.



Once finished, create sheets (layouts)
for each drawing.
Go to Sheets, click on
New Sheet



Properties

Browser - Sheets all

Other (1) Edit Type

Other

Folders Edit...

Filter Edit...

Properties help Apply

Project Browser - AADA20_wip.rvt

- Views (all)
- Structural Plans
- Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
- 3D Views
- Sections
- Sheets (all)
- Families
- Groups

New Sheet...

Browser Organization...

Search...

Expand All

Collapse All

Modify Select Properties Clipboard Geometry Modify View Measure Create

Properties Browser - Sheets all Other (1) Edit Type Other Folders Edit... Filter Edit...

Properties help Apply

Project Browser - AADA20_wip.rvt Views (all) Structural Plans Floor Plans Level 1 Level 2 Level 3 Level 4 Site 3D Views Sections (Building Section) Section 1 Legends Schedules/Quantities (all) Sheets (all) Families Groups

Level 1 {3D} Level 2 Section 1

New Sheet

Select titleblocks:

- A1 metric
- A3_AADA10_Sheet
- None

Select placeholder sheets:

- New

OK Cancel

Click on Load

Activate Windows
Go to Settings to activate Windows.

Modify Select Properties Clipboard Geometry Modify View Measure Create

Properties Browser - Sheets all Other (1) Edit Type Other Folders Edit... Filter Edit...

Properties help Apply

Project Browser - AADA20_wip.rvt Views (all) Structural Plans Floor Plans Level 1 Level 2 Level 3 Level 4 Site 3D Views Sections (Building Section) Section 1 Legends Schedules/Quantities (all) Sheets (all) Families Groups

New Sheet Select titleblocks: Load... A1 metric

Load Family Look in: Exports

Name	Date modified	Type
A3_AADA10_Sheet.0001.rfa	2019-10-30 17:38	Aut
A3_AADA10_Sheet.0002.rfa	2019-10-30 17:51	Aut
A3_AADA10_Sheet.rfa	2019-10-30 17:51	Aut

File name: A3_AADA10_Sheet.rfa Files of type: All Supported Files (*.rfa, *.adsk) Open Cancel

Navigate to the .rfa file that you can download from the course website.

Activate Windows Go to Settings to activate Windows.

Modify Select Properties Clipboard Geometry Modify View Measure Create

Properties Browser - Sheets all Other (1) Edit Type Other Folders Edit... Filter Edit...

Properties help Apply

Project Browser - AADA20_wip.rvt Views (all) Structural Plans Floor Plans Level 1 Level 2 Level 3 Level 4 Site 3D Views Sections (Building Section) Section 1 Legends Schedules/Quantities (all) Sheets (all) Families Groups

Level 1 {3D} Level 2

New Sheet

Select titleblocks:

- A1 metric
- A3_AADA10_Sheet**
- None

Select placeholder sheets:

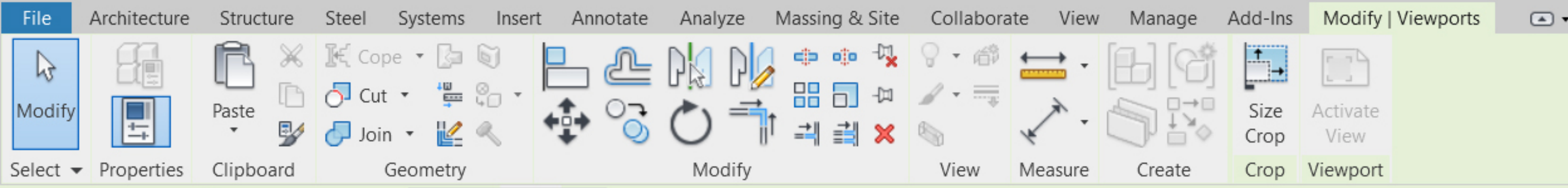
- New**

OK Cancel

Section 1

Select the loaded sheet and click OK

Activate Windows
Go to Settings to activate Windows.



Properties

Viewport Title w Line

Viewports (1) Edit Type

Graphics

View Scale 1 : 200

Scale Value 1 : 200

Display Model Normal

Detail Level Coarse

Parts Visibility Show Original

Detail Number 1

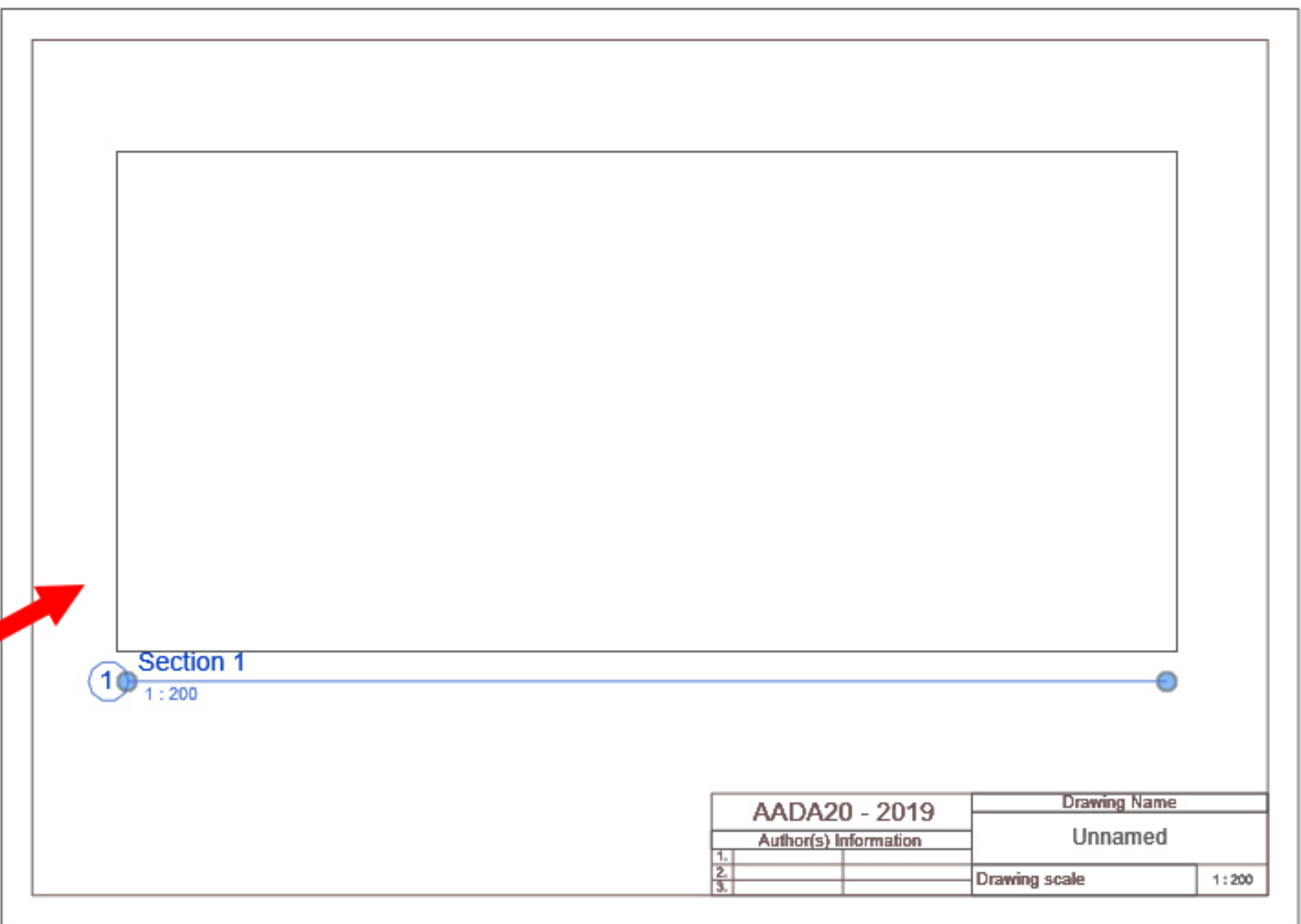
Rotation on S... None

Visibility/Grp... Edit...

Properties help Apply

Project Browser - AADA20_wip.rvt

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
- 3D Views
- Sections (Building Section)
 - Section 1
- Legends
- Schedules/Quantities (all)
- Sheets (all)
- Families
- Groups



Drag and drop desired drawing onto the sheet
Make sure that the scale is correct

AADA20 - 2019		Drawing Name	
Author(s) Information		Unnamed	
1.		Drawing scale	1 : 200
2.			
3.			

Activate Windows
Go to Settings to activate Windows.

File Architecture Structure Steel Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Modify | Viewports

Modify Select Properties Clipboard Geometry Modify View Measure Create Crop Viewport

Rotation on Sheet: None

Level 1 {3D} Level 2 Level 3 Site Level 4 Section 1 A102 - Unnamed X

Viewport Title w Line

Viewports (1) Edit Type

Graphics

View Scale 1 : 200

Scale Value 1: 1 : 25

Display Model 1 : 50

Detail Level 1 : 100

Parts Visibility 1 : 200

Detail Number 1 : 500

Detail Number 1 : 1000

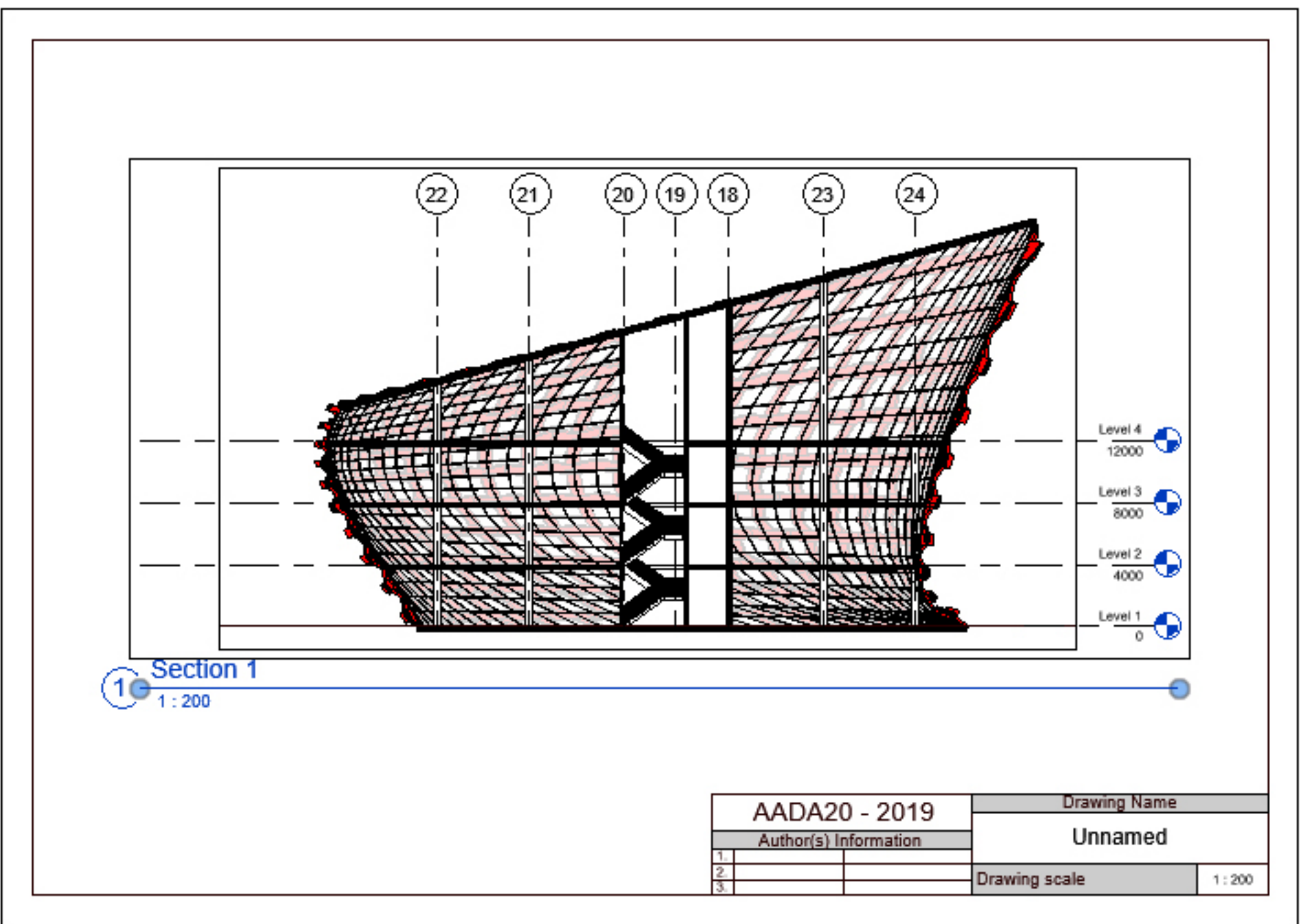
Rotation on S... None

Visibility/Grp... Edit...

Apply

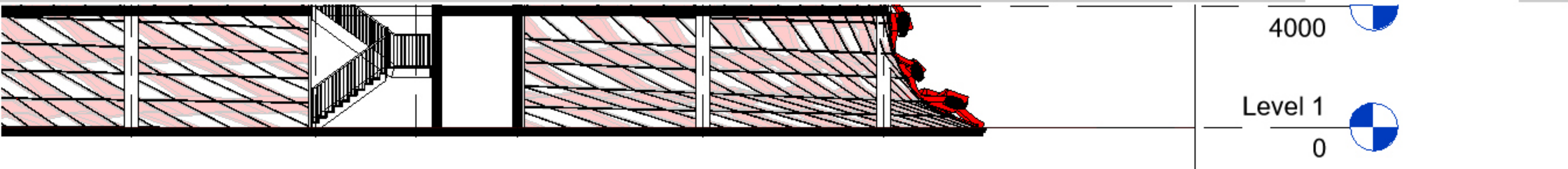
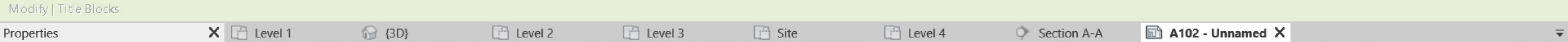
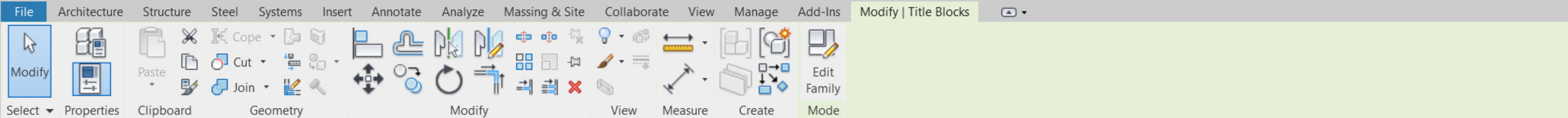
Project Browser - AADA20_wip.rvt

- Views (all)
 - Structural Plans
 - Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
 - 3D Views
 - Sections (Building Section)
 - Section 1
 - Legends
 - Schedules/Quantities (all)
 - Sheets (all)
 - Families
 - Groups



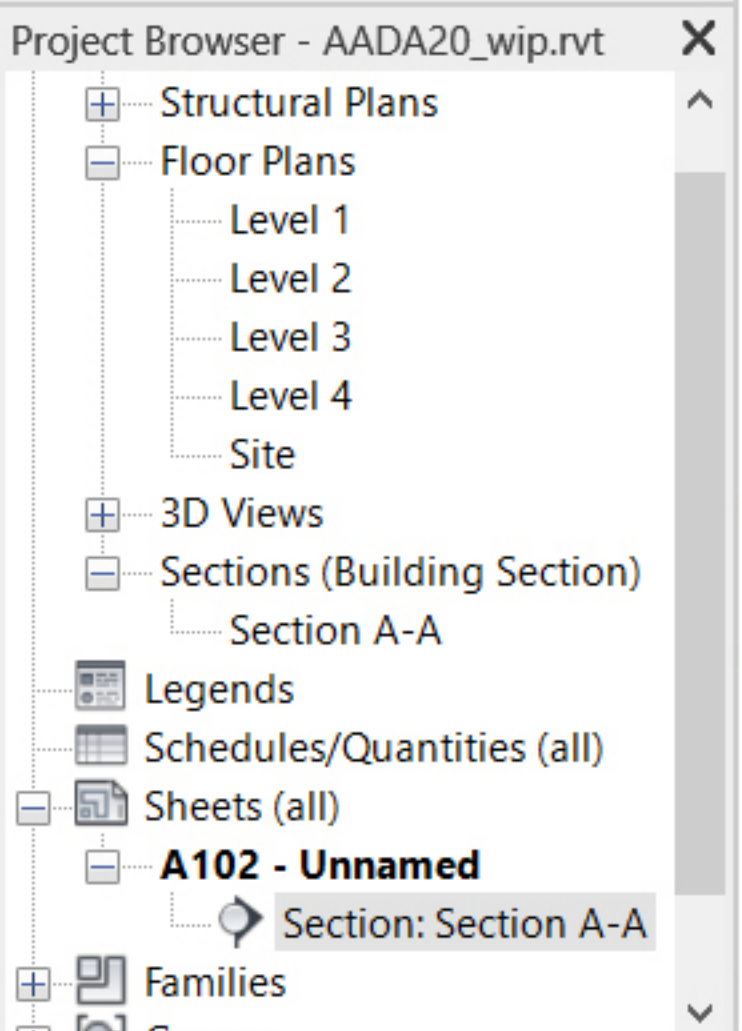
AADA20 - 2019		Drawing Name	
Author(s) Information		Unnamed	
1		Drawing scale	1 : 200
2			
3			

Activate Windows
Go to Settings to activate Windows.

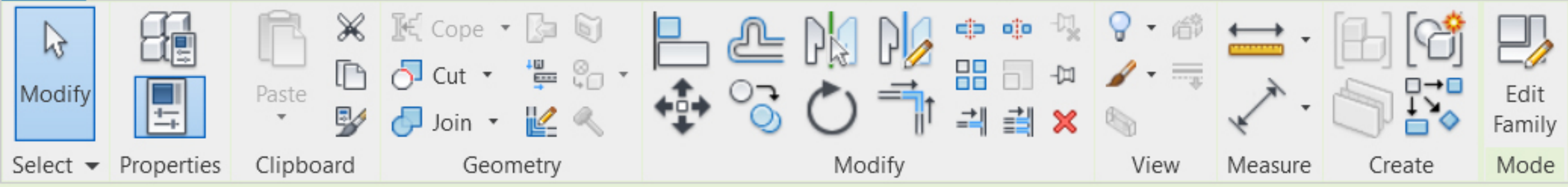


Click on the stamp and Single click on the Drawing name. Then you'll be able to change it.

AADA20 - 2019		
		Unnamed
1.	?	?
2.	?	?
3.	?	?
		1 : 200



Activate Windows
Go to Settings to activate Windows.



Modify | Title Blocks

Properties

A3_AADA10_Sheet

Title Blocks (1) Edit Type

Graphics

Scale 1 : 200

Identity Data

Sheet Name Unnamed

Sheet Number A102

Date/Time Sta... 10/30/19

Sheet Issue Da... 10/30/19

Drawn By Author

Checked By Checker

Properties help Apply

Project Browser - AADA20_wip.rvt

- Structural Plans
- Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
- 3D Views
- Sections (Building Section)
 - Section A-A
- Legends
- Schedules/Quantities (all)
- Sheets (all)
 - A102 - Unnamed**
 - Section: Section A-A
- Families

4000

Level 1

0

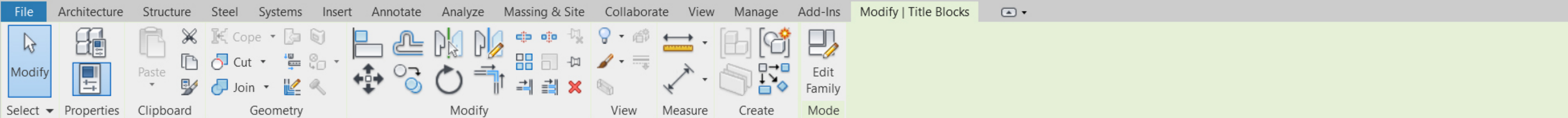
Give it a new name

AADA20 - 2019		
1.	?	?
2.	?	?
3.	?	?

Section A-A

1 : 200

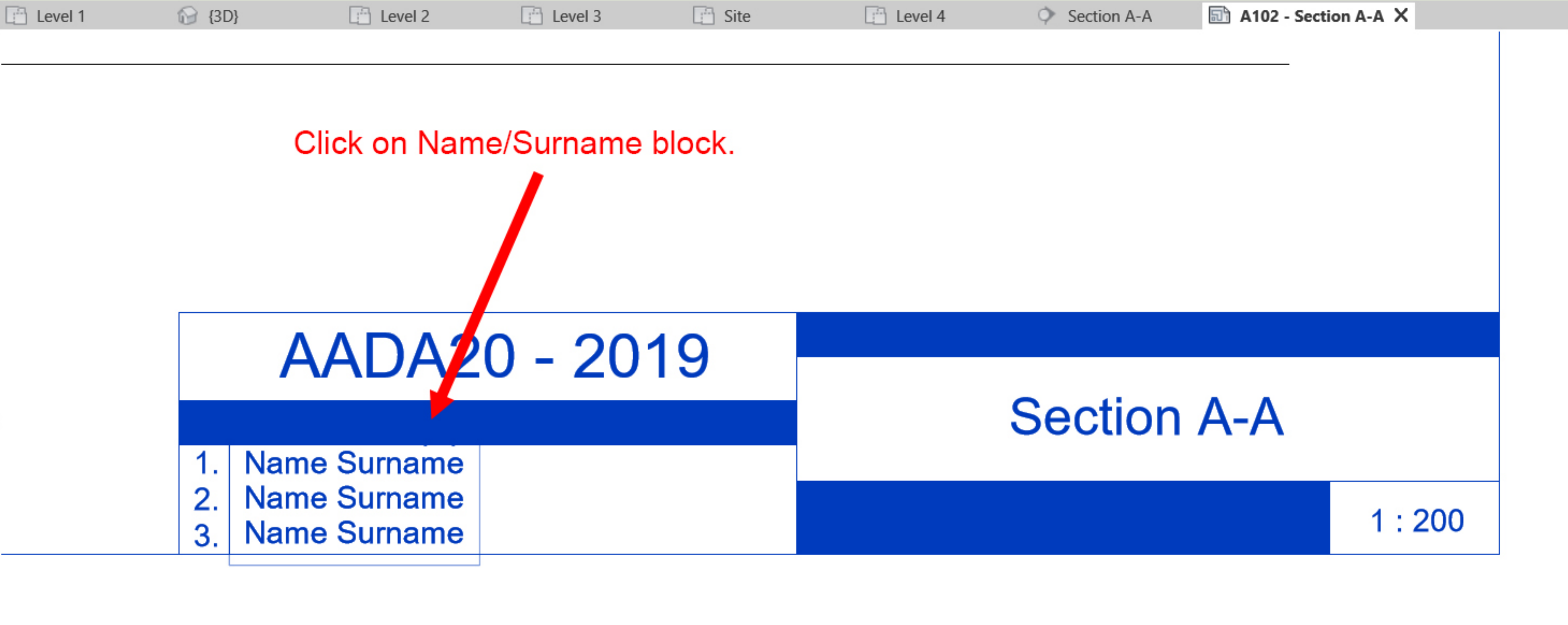
Activate Windows
Go to Settings to activate Windows.



Properties panel for 'A3_AADA10_Sheet'. It includes a 'Title Blocks (1)' dropdown with an 'Edit Type' button. Below this are 'Graphics' and 'Identity Data' sections. The Identity Data section contains the following fields:

Sheet Name	Section A-A
Sheet Number	A102
Date/Time Sta...	10/30/19
Sheet Issue Da...	10/30/19
Drawn By	Name Surname
Checked By	Checker

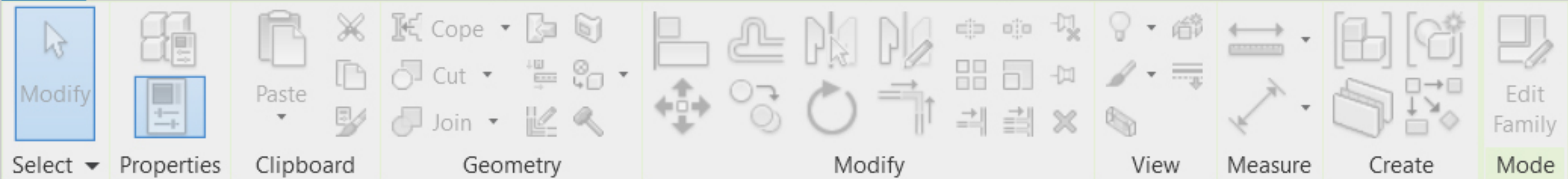
Buttons for 'Properties help' and 'Apply' are located at the bottom of the Identity Data section.



Project Browser for 'AADA20_wip.rvt'. It shows a tree view of the project structure:

- Structural Plans
- Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
- 3D Views
- Sections (Building Section)
 - Section A-A
- Legends
- Schedules/Quantities (all)
- Sheets (all)
 - A102 - Section A-A**
 - Section: Section A-A
- Families

Activate Windows
Go to Settings to activate Windows.



Modify | Title Blocks

Properties

A3_AADA10_Sheet

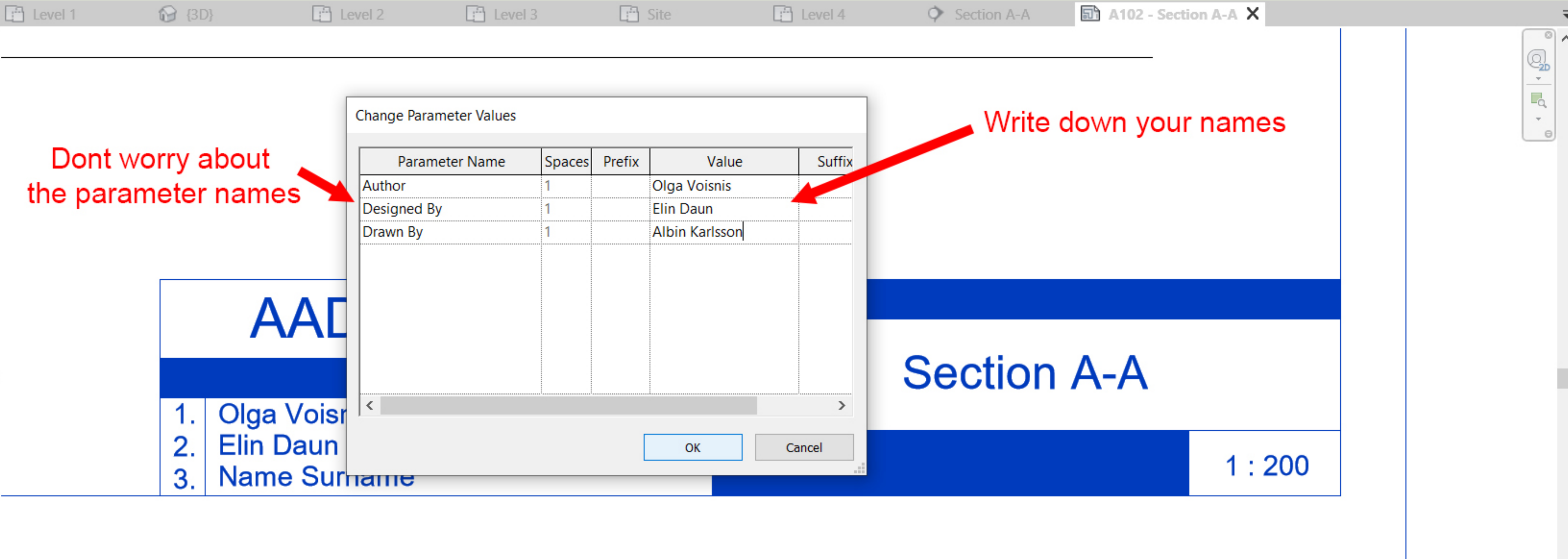
Title Blocks (1) Edit Type

Sheet Number	A102
Date/Time Sta...	10/30/19
Sheet Issue Da...	10/30/19
Drawn By	Name Surna...
Checked By	Checker
Designed By	Name Surname
Approved By	Approver
Sheet Width	420.0
Sheet Height	297.0

Properties help Apply

Project Browser - AADA20_wip.rvt

- Structural Plans
- Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
- 3D Views
- Sections (Building Section)
 - Section A-A
- Legends
- Schedules/Quantities (all)
- Sheets (all)
 - A102 - Section A-A**
 - Section: Section A-A
- Families



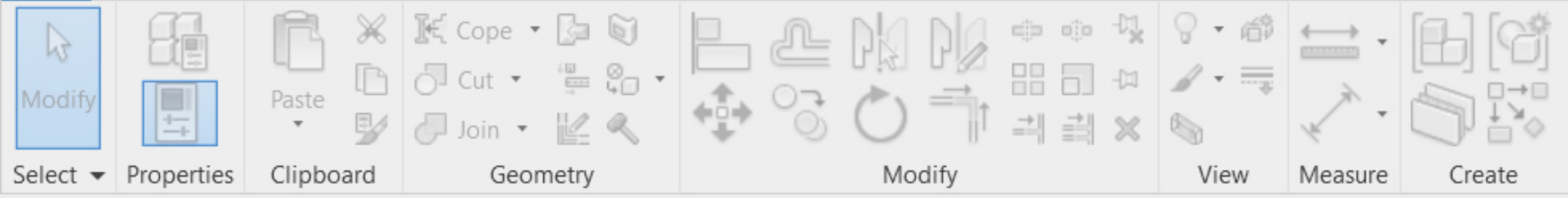
Dont worry about the parameter names

Write down your names

1.	Olga Voisnis
2.	Elin Daun
3.	Name Surname

Section A-A

1 : 200



Properties

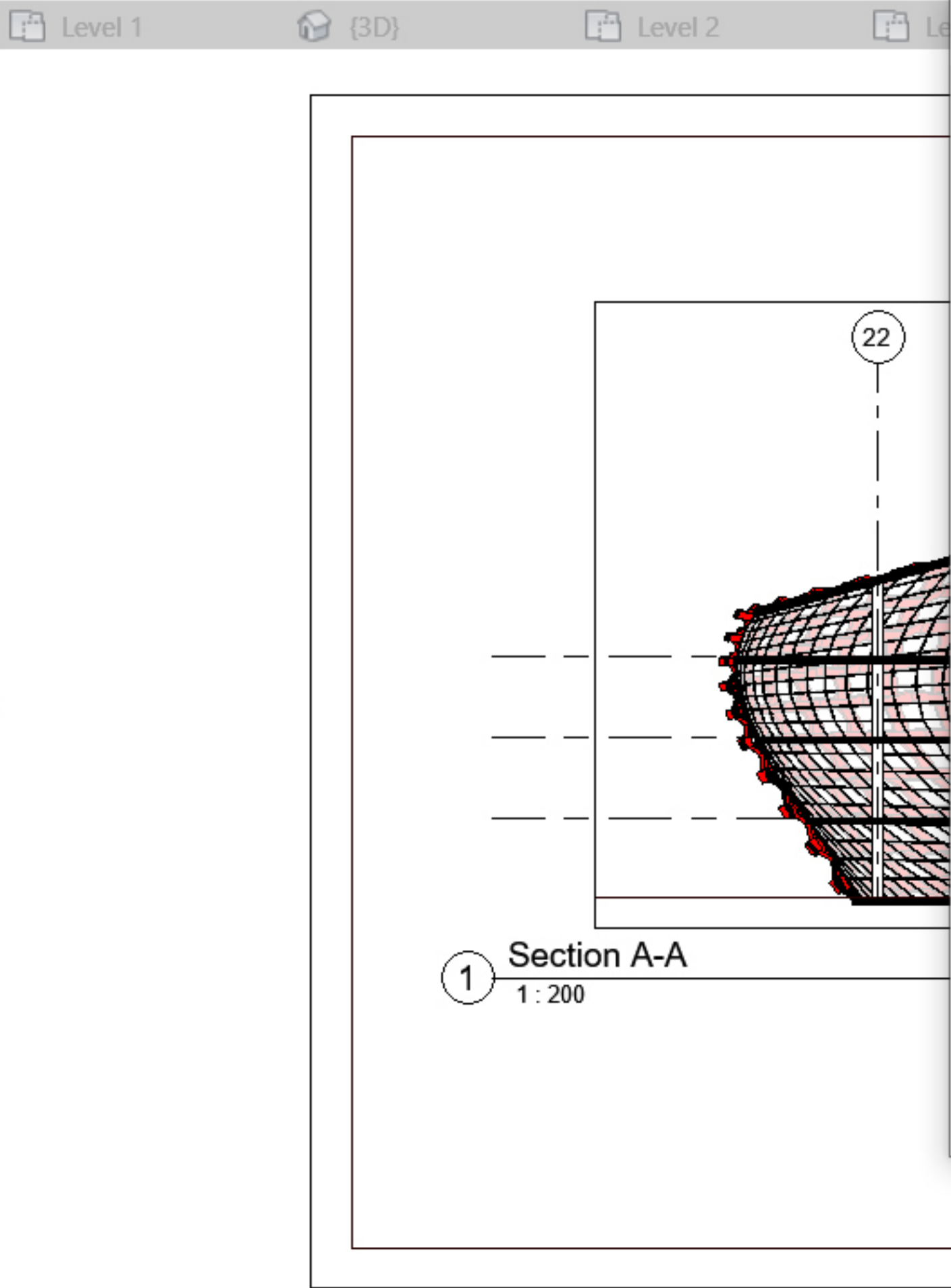
Sheet

Sheet: Section A-A

Dependency	Independent
Referencing S...	
Referencing D...	
Current Revisi...	<input type="checkbox"/>
Current Revisi...	
Current Revisi...	
Current Revisi...	
Current Revisi...	
Current Revisi...	

Project Browser - AADA20_wip.rvt

- Structural Plans
- Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
- 3D Views
- Sections (Building Section)
 - Section A-A
- Legends
- Schedules/Quantities (all)
- Sheets (all)
 - A102 - Section A-A**
 - Section: Section A-A
- Families



Print

Printer

Name: Adobe PDF

Status: Ready

Type: Adobe PDF Converter

Where: Documents*.pdf

Comment:

File

Combine multiple selected views/sheets into a single file

Create separate files. View/sheet names will be appended to the specified name

Name: C:\Users\gkird\Desktop\AADA20\Exports\AADA20_wip.pdf

Print Range

Current window

Visible portion of current window

Selected views/sheets

<in-session>

Select...

Options

Number of copies: 1

Reverse print order

Settings

Default

Setup...

Printing Tips Preview OK Cancel Help

Press CTRL+P
Choose Adobe PDF
Choose Selected
views/sheets
and
Click "Select"

Author(s) Information		Section A-A	
1. Olga Voisnis		Drawing scale	1 : 200
2. Elin Daun			
3. Albin Karlsson			



View/Sheet Set

Name: <in-session>

- Sheet: A102 - Section A-A

Show: Sheets Views

Print

Printer: Adobe PDF

Status: Ready

Type: Adobe PDF Converter

File:

- Combine multiple selected views/sheets into a single file
- Create separate files. View/sheet names will be appended to the specified name

Name: C:\Users\gkird\Desktop\AADA20\Exports\AADA20_wip.pdf

Print Range:

- Current window
- Visible portion of current window
- Selected views/sheets

Options:

- Number of copies: 1
- Reverse print order
- Collate

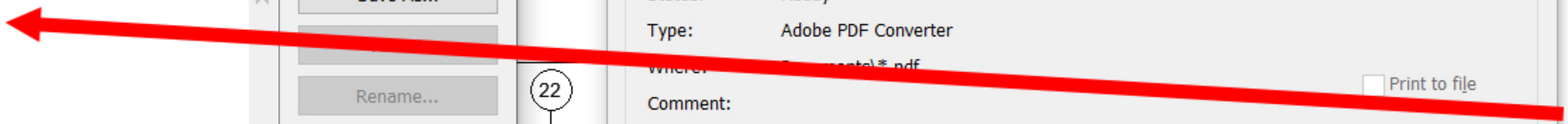
Settings: Default

Author(s) Information:

1. Olga Voisinis
2. Elin Daun
3. Albin Karlsson

Section A-A

Drawing scale: 1 : 200



Here I have only one sheet, but you should be able to select all of the sheets that you want to be plotted out as PDF'S.



Print Setup

Printer: Adobe PDF
Name: <in-session>

Paper: Size: A3 Source: <default tray>

Orientation: Portrait Landscape

Paper Placement: Center Offset from corner: Printer limit

Hidden Line Views: Remove Lines Using: Vector Processing Raster Processing

Appearance: Raster quality: High Colors: Color

Zoom: Fit to page Zoom: 100 % size

Options: View links in blue (Color prints only) Hide ref/work planes Hide unreferenced view tags Region edges mask coincident lines Hide scope boxes Hide crop boundaries Replace halftone with thin lines

Buttons: OK Cancel

Printer: Adobe PDF Properties...

Number of copies: 1

Reverse print order Collate

Options: Print to file

File path: ... Browse...

Buttons: Preview OK Cancel Help

Go to Print Setting Setup
Choose A3 size
Zoom should be 100%
Orientation Landscape

Project Browser

- Legends
- Schedules/Quantities (all)
- Sheets (all)
- A102 - Section A-A**
- Section: Section A-A
- Families

Activate Windows
Go to Settings to activate Windows.

Save PDF File As

This PC > Desktop > AADA20 > Plot

Search Plot

Name	Date modified	Type	Size
AADA20_wip_plot.pdf	2019-10-30 18:20	Adobe Acrobat D...	1,558

File name: AADA20_wip_plot.pdf

Save as type: PDF files (*.PDF)

Save Cancel

DA20_wip.rvt - Sheet: A102 - Section A-A

Type a keyword or phrase

Add-Ins Modify | Title Blocks

Edit Family Mode

Site Level 4 Section A-A A102 - Section A-A

Once you hit OK, Revit is going to ask you for the name and where it should save your pdf.

AADA20 - 2019	
Drawing Name	
Section A-A	
Author(s) Information	
1. Olga Volenis	
2. Elin Ouan	
3. Albin Karlsson	
Drawing scale	1:200

Project Browser - AADA20_wip.rvt

- Structural Plans
- Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
- 3D Views
- Sections (Building Section)
 - Section A-A
- Legends
- Schedules/Quantities (all)
- Sheets (all)
 - A102 - Section A-A**
 - Section: Section A-A
- Families

Activate Windows
Go to Settings to activate Windows.



Modify | Title Blocks

Properties

A3_AADA10_Sheet	
Title Blocks (1) Edit Type	
Sheet Name	Section A-A
Sheet Number	A102
Date/Time Sta...	10/30/19
Sheet Issue Da...	10/30/19
Drawn By	Albin Karlsson
Checked By	Checker
Designed By	Elin Daun
Approved By	Approver
Sheet Width	420.0

Project Browser - AADA20_wip.rvt

- Structural Plans
- Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
- 3D Views
- Sections (Building Section)
 - Section A-A
- Legends
- Schedules/Quantities (all)
- Sheets (all)
 - A102 - Section A-A**
 - Section: Section A-A
- Families

Level 1 {3D} Level 2 Level 3 Site Level 4 Section A-A A102 - Section A-A X

Creating Adobe PDF

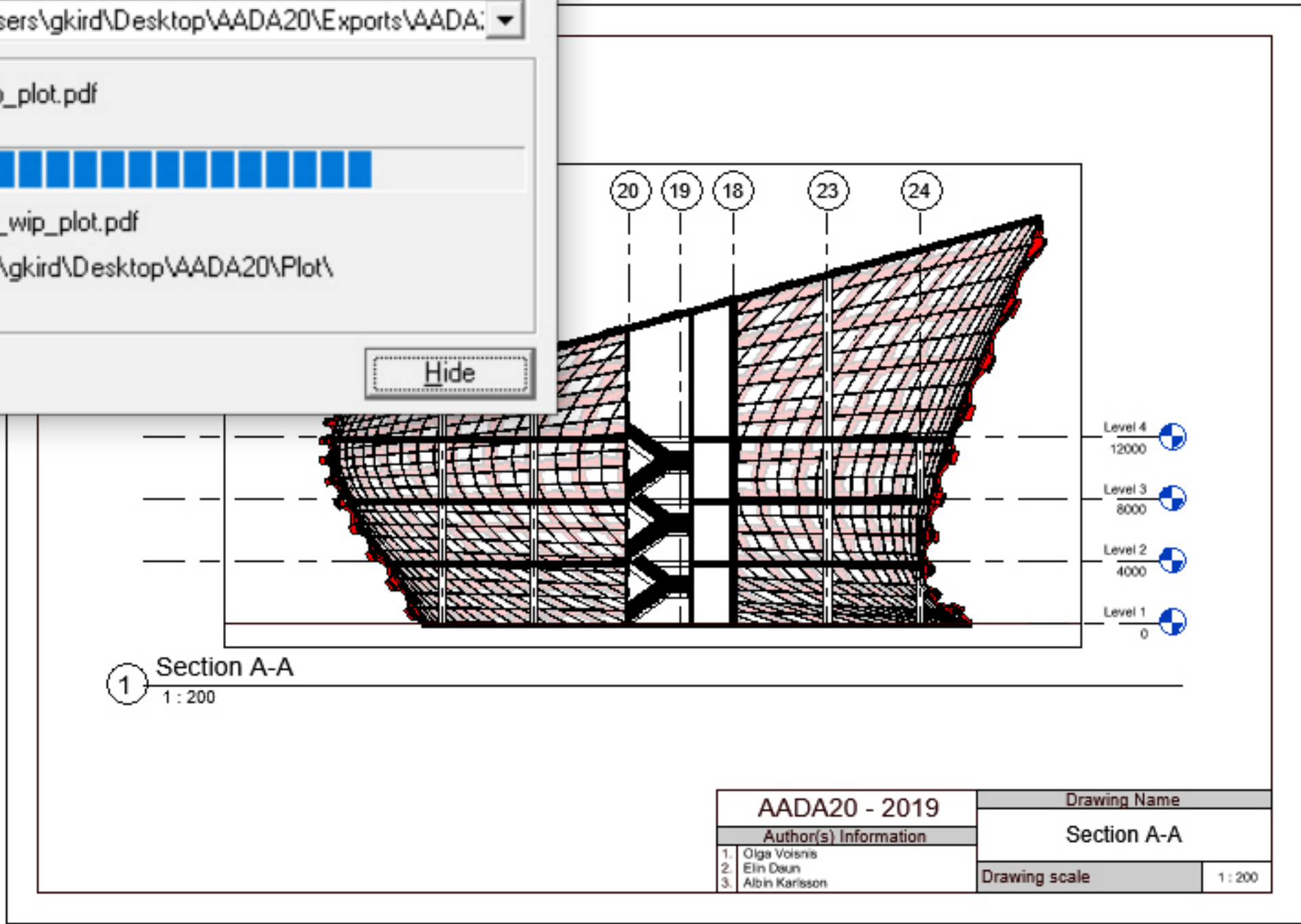
Document Name: C:\Users\vgkird\Desktop\AADA20\Exports\AADA20\

PDF Progress
Creating... AADA20_wip_plot.pdf

PDF Name: AADA20_wip_plot.pdf
PDF Folder: C:\Users\vgkird\Desktop\AADA20\Plot\

Sending Page: 1

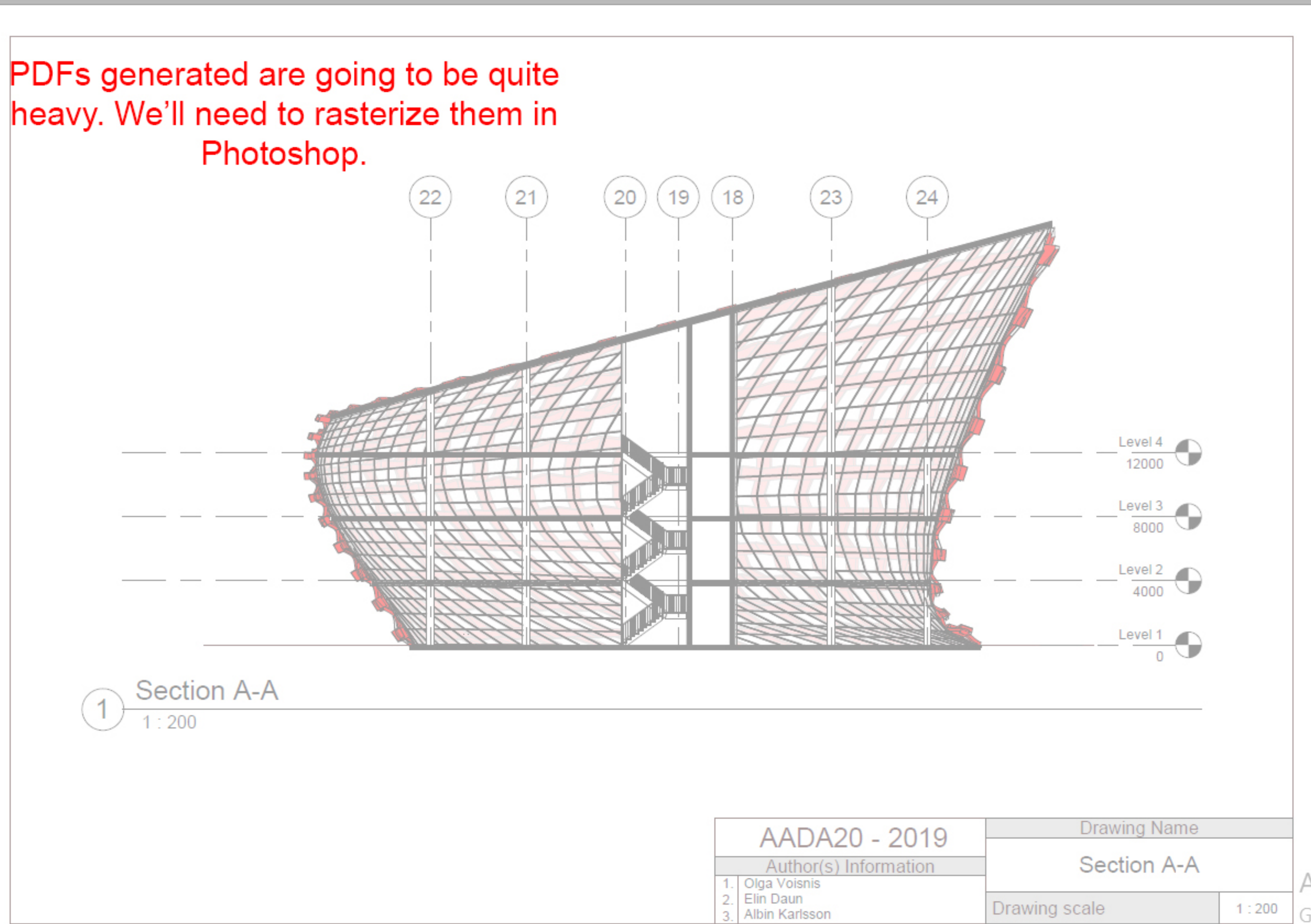
Hide



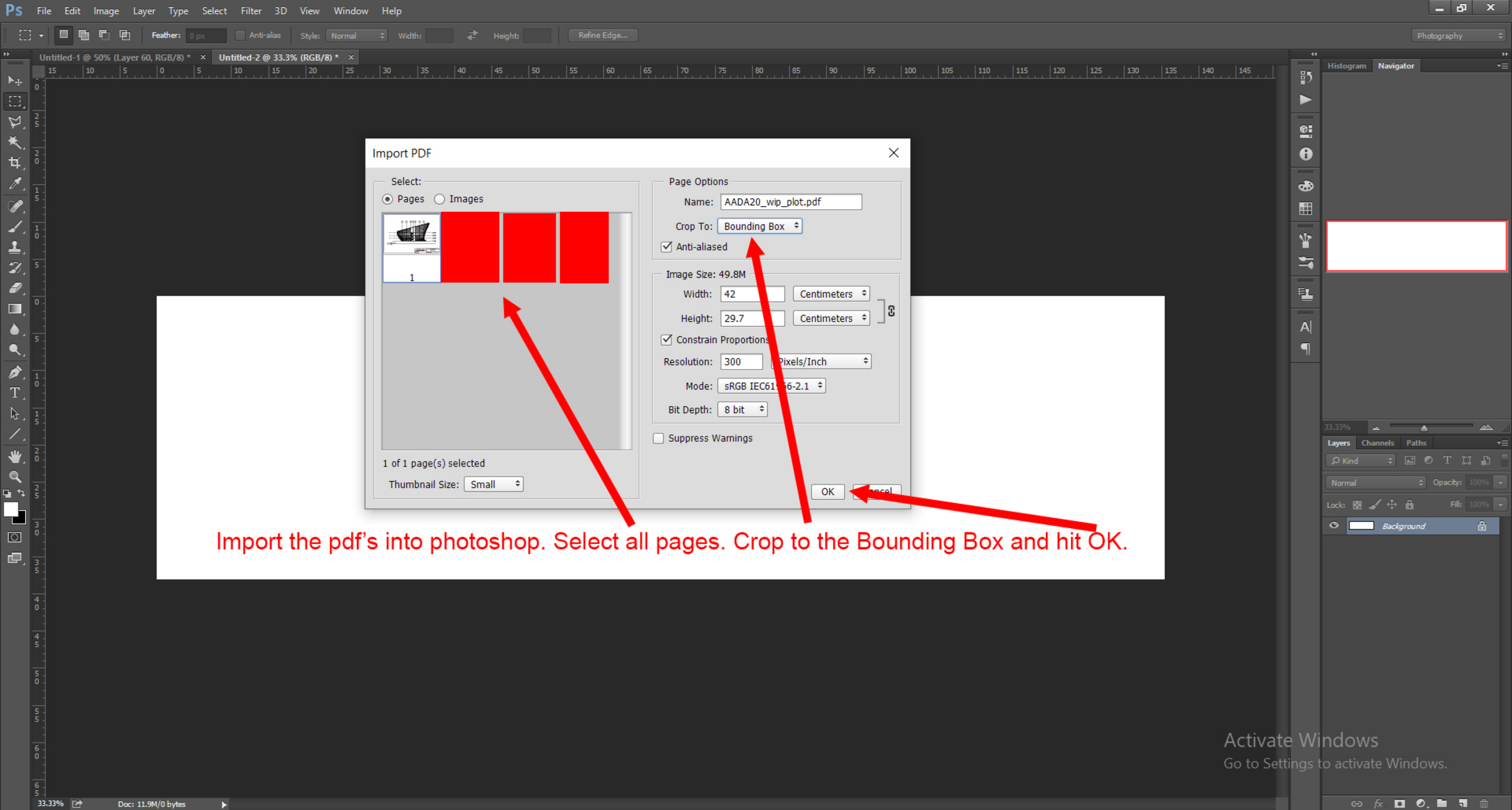
This part takes a bit.

AADA20 - 2019	
Author(s) Information	
1. Olga Volenis	Drawing Name
2. Elin Daun	Section A-A
3. Albin Karlsson	Drawing scale
	1:200

Activate Windows
Go to Settings to activate Windows.

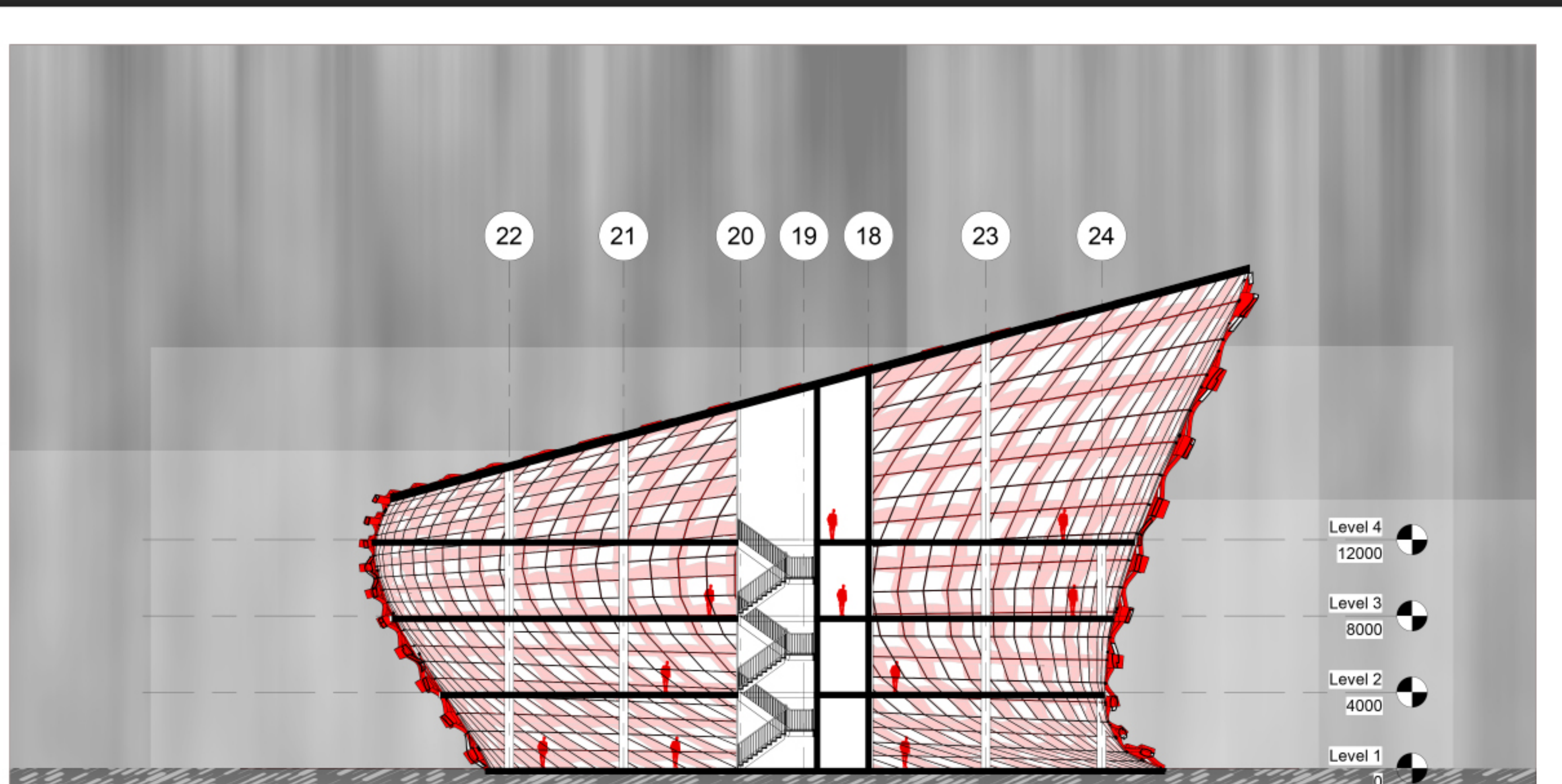


Activate Windows
Go to Settings to activate Windows.



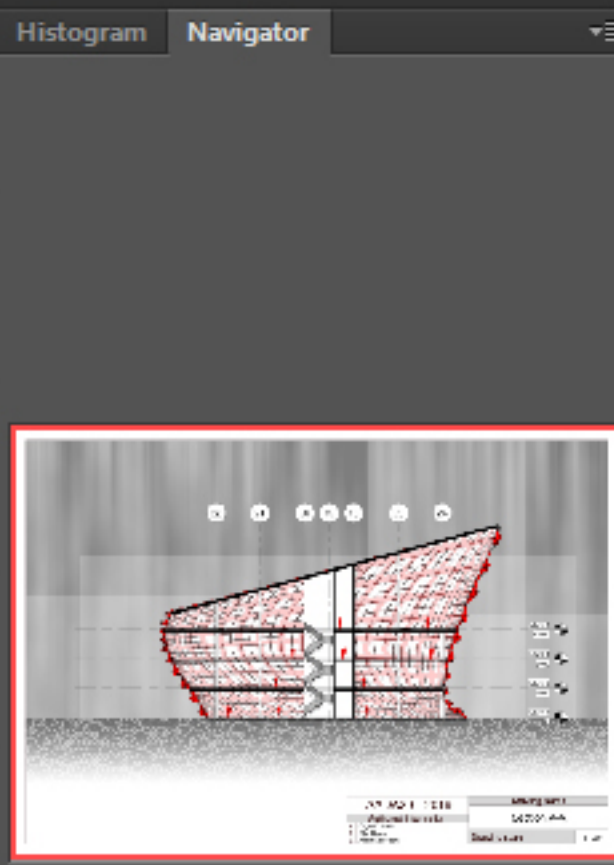
Import the pdf's into photoshop. Select all pages. Crop to the Bounding Box and hit OK.

Activate Windows
Go to Settings to activate Windows.



Add additional graphics/textures/elements in Photoshop. Once finished, save each page as a separate file and combine them back into a single pdf with Adobe Acrobat or any online PDF combiner (just google "Combine pdf")

AADA20 - 2019		Drawing Name	
Author(s) Information		Section A-A	
1. Olga Voisnis		Drawing scale	1 : 200
2. Elin Daun			
3. Albin Karlsson			



25%

Layers Channels Paths

Kind

Normal Opacity: 100%

Lock: Fill: 100%

- rp_dennis_posed_004_A co...
- Layer 1
- Layer 4 copy 2
- Layer 3
- Layer 6
- Layer 5
- Layer 4
- Layer 2

Activate Windows
Go to Settings to activate Windows.